

ENCLOSURE 1

ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

SEQUOYAH NUCLEAR PLANT

2006

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
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SUPPLEMENTAL INFORMATION

I. REGULATORY LIMITS

A. Gaseous Effluents

1. Dose rates due to radioactivity released in gaseous effluents from the site to areas at and beyond the unrestricted area boundary shall be limited to the following:
 - a. Noble gases:
 - Less than or equal to 500 mrem/year to the total body.
 - Less than or equal to 3000 mrem/year to the skin.
 - b. Iodine-131, Iodine-133, tritium, and all radionuclides in particulate form with half-lives greater than eight days:
 - Less than or equal to 1500 mrem/year to any organ.
2. Air dose due to noble gases released in gaseous effluents to areas at and beyond the unrestricted area boundary shall be limited to the following:
 - a. Less than or equal to 5 mrad for gamma radiation and less than or equal to 10 mrad for beta radiation during any calendar quarter.
 - b. Less than or equal to 10 mrad for gamma radiation and less than or equal to 20 mrad for beta radiation during any calendar year.
3. Dose to a member of the public from Iodine-131, Iodine-133, tritium, and radionuclides in particulate form with half-lives greater than eight days in gaseous effluents released to areas at and beyond the unrestricted area boundary shall be limited to the following:
 - a. Less than or equal to 7.5 mrem to any organ during any calendar quarter.
 - b. Less than or equal to 15 mrem to any organ during any calendar year.

B. Liquid Effluents

1. The annual average concentration of radioactivity released in liquid effluents to unrestricted areas shall be limited to the concentrations specified in Title 10 of the Code of Federal Regulations, Part 20

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(Standards for Protection Against Radiation), Appendix B, Table 2, Column 2, for radionuclides other than dissolved or entrained noble gases. For dissolved or entrained noble gases, the concentration shall be limited to 2.0 E-04 microcuries/milliliter ($\mu\text{Ci/ml}$) total activity.

2. The dose or dose commitment to a member of the public from radioactivity in liquid effluents released to unrestricted areas shall be limited to:
 - a. Less than or equal to 1.5 mrem to the total body and less than or equal to 5 mrem to any organ during any calendar quarter.
 - b. Less than or equal to 3 mrem to the total body and less than or equal to 10 mrem to any organ during any calendar year.

II. EFFLUENT CONCENTRATION LIMITS

A. Liquids

- *1. The Effluent Concentration Limits (ECL) for liquids are those listed in 10 CFR 20, Appendix B, Table 2, Column 2. For dissolved and entrained gases, the ECL of 2.0E-04 $\mu\text{Ci/ml}$ is applied. This ECL is based on the Xe-135 concentration in air (submersion dose) converted to an equivalent concentration in water as discussed in the International Commission on Radiological Protection (ICRP), Publication 2.

*These values are used as applicable limits for liquid and gaseous effluents.

B. Gaseous

- *1. The maximum permissible dose rates for gaseous releases are defined in plant Offsite Dose Calculation Manual (ODCM).
 - a. Noble gas dose rate at the unrestricted area boundary:
 - Less than or equal to 500 mrem/year to the total body.
 - Less than or equal to 3000 mrem/year to skin.
 - b. Iodine-131, Iodine-133, tritium, and particulates with half-lives greater than eight days dose rate at the unrestricted area boundary:
 - Less than or equal to 1500 mrem/year to any organ.

*These values are used as applicable limits for liquid and gaseous effluents.

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III. AVERAGE ENERGY

Sequoyah's ODCM limits the dose equivalent rates due to the release of noble gases to less than or equal to 500 mrem/year to the total body and less than or equal to 3000 mrem/year to the skin. The use of dose rate is in accordance with NUREG-0133, "Preparation of Radiological Effluent Technical Specifications for Nuclear Power Plants". Since the release rate is not used for effluent control, the average energy discussed in Regulatory Guide 1.21 (used for release rate control) is not included in this report.

IV. MEASUREMENTS AND APPROXIMATIONS OF TOTAL RADIOACTIVITY

NOTE: Every effort is made to ensure that effluent releases from Sequoyah are conducted such that all ODCM Lower Limit of Detection (LLD) values are met. Whenever an analysis does not identify a radioisotope, an "0.00E-01 Ci" is recorded for the release. This does not necessarily mean that no activity was released for that particular radionuclide, but that the concentration was below the ODCM and analysis LLD. Refer to Tables A and B for estimates of these typical LLD values.

A. Fission and Activation Gases

Airborne effluent gaseous activity is continuously monitored and recorded. Additional grab samples from the shield building, auxiliary building, service building, and condenser vacuum exhausts are taken and analyzed at least monthly to determine the quantity of noble gas activity released for the month based on the average vent flow rates recorded for the sample period. Also, noble gas samples are collected and evaluated for the shield and auxiliary buildings following startup, shutdown, or rated thermal power change exceeding 15 percent within one hour (sampling is only required if the dose equivalent I-131 concentration in the primary coolant or the noble gas activity monitor shows that the containment activity has increased more than a factor of 3).

The quantity of noble gases released through the shield and auxiliary building exhausts due to purging or venting of containment and releases of waste gas decay tanks are also determined.

The total noble gas activity released for the month is then determined by summing of the activity released from each vent for the sampling periods.

B. Iodines and Particulates

Iodine and particulate activity is continuously sampled. Charcoal and particulate samples are taken from the shield and auxiliary building exhausts and analyzed at least weekly to determine the total activity released from the plant based on the average vent flow rates recorded for sampling period.

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Also, particulate and charcoal samples are taken from the auxiliary and shield building exhausts once per 24 hours for 2 days following startup, shutdown, or a rated thermal power change exceeding 15 percent within 1 hour. The quantity of iodine and particulate released from each vent during each sampling period is then determined using the average vent flow rates recorded for the sampling period and activity concentration.

The total particulate and iodine activity released for the month is then determined by summing all activity released from the shield and auxiliary building exhausts for the sampling periods.

C. Liquid Effluents

Batch (Radwaste and during periods of primary to secondary leakage, condensate regenerants to cooling tower blowdown)

Total gamma isotopic activity concentrations are determined on each batch of liquid effluent prior to release. The total activity of a released batch is determined by summing each nuclide's concentration and multiplying by the total volume discharged. The total activity released during a month is then determined by summing the activity content of each batch discharged during the month.

Continuous Releases and Periodic Continuous Releases (Condensate regenerants, turbine building sump, and steam generator blowdown)

Total gamma isotopic activity concentration is determined daily on a composite sample from the condensate system and turbine building sump and weekly for steam generator blowdown. The total activity of the continuous release is determined by summing each nuclide's concentration and multiplying by the total volume discharged. The total activity released during the month is then determined by summing the activity content of each daily and weekly composite for the month.

A total of eight shallow on site wells were sampled on a regular schedule during the year to monitor for tritium in on site ground water. Six of the wells are equipped with automatic composite samplers. Detectable levels of tritium have been measured in three of these shallow wells. The highest tritium concentration was approximately 1,500 pCi/L. Two additional shallow on site wells were monitored on a regular schedule by grab sampling. The highest concentration measured in samples from these wells was 17,070 pCi/L. No other radionuclides have been detected in samples from these monitoring locations. A rigorous sampling and ground water hydrology investigation has been initiated to identify the source of the tritium. The tritium is confined to shallow on site ground water and does not represent a potential for contamination of off site ground water systems.

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V. BATCH

Value		Units
1st Half	2nd Half	

A. Liquid (Radwaste only)

1. Number of releases	91	110	Each
2. Total time period of releases	21698.0	45774.0	Minutes
3. Maximum time period of release	5502.0	4320.0	Minutes
4. Average time period of releases	238.4	416.13	Minutes
5. Minimum time period for release	75.0	69	Minutes
6. Average dilution stream flow during release periods	21897.0	28264.5	CFS

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B. Gaseous (Batches only, containment purges, containment vents, and waste decay tanks)

1. Number of releases	64	72	Each
2. Total time period of releases	28318.0	31269.0	Minutes
3. Maximum time period for release	6710.0	2805.0	Minutes
4. Average time period for releases	442.5	434.3	Minutes
5. Minimum time period for release	15.0	75.0	Minutes

VI. ABNORMAL RELEASES

	Value		Units
	1st Half	2nd Half	
A. <u>Liquid</u>			
Number of Releases	0	0	
Total Activity Released	0.00E-01	0.00E-01	Ci
B. <u>Gaseous</u>			
Number of Releases	0	1	
Total Activity Released	0.00E-01	1.19E+01	Ci

The CILRT containment release is intended to be an un-monitored release with three release pathways: one each through the Aux Bldg. and the Shield Bldg. and one through an unmonitored path to the SQN environs. For conservatism, the pressurized containment volume is modeled to be released through the un-monitored pathway at the total release rate. This will provide the maximum calculated dose.

Pre -release samples were collected and analyzed with the following results:

1. Tritium 7.808E-8 $\mu\text{Ci/ml}$
2. Noble Gas no observed activity
3. Particulate Co-58 1.424E-12 $\mu\text{Ci/cc}$
4. Iodine no observed activity

A pre-release permit was generated using the full containment volume of 1.1922E6 CF and a flow rate of 1.1E4 CFM. The pre-release permit was processed to the OPEN status and no limits were exceeded.

Post release samples were collected and analyzed with the following results:

1. Tritium 2.882E-8 $\mu\text{Ci/ml}$
2. Noble Gas Xe-133 3.333E-7 $\mu\text{Ci/cc}$
3. Particulate Co-58 5.360E-11 $\mu\text{Ci/cc}$
4. Iodine no observed activity

The post-release permit was generated using the larger of the pre vs post analyses to demonstrate no limits were exceeded.

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LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

A.	<u>Fission and Activation Products</u>	<u>Unit</u>	<u>1st Qtr</u>	<u>2nd Qtr</u>	<u>3rd Qtr</u>	<u>4th Qtr</u>	<u>%Error</u>
1.	Total Released	Curies	4.94E-02	4.62E-02	3.26E-02	5.91E-02	18%
2.	Average diluted concentration during period	μCi/ml	2.81E-08	2.38E-08	1.27E-08	3.46E-08	
3.	Percent of Applicable Limit	%	*	*	*	*	
B.	<u>Tritium</u>						
1.	Total Released	Curies	1.11E+03	3.10E+02	3.77E+02	3.92E+02	18%
2.	Average diluted concentration during period	μCi/ml	6.31E-04	1.60E-04	1.47E-04	2.29E-04	
3.	Percent of Applicable Limit	%	*	*	*	*	
C.	<u>Dissolved and Entrained Gases</u>						
1.	Total Released	Curies	2.33E+00	2.04E-01	2.28E-03	6.67E-03	39%
2.	Average diluted concentration during period	μCi/ml	1.32E-06	1.05E-07	8.91E-10	3.90E-09	
3.	Percent of Applicable Limit	%	6.60E-01	5.25E-02	4.46E-04	1.95E-03	
D.	<u>Gross Alpha</u>						
1.	Total Released	Curies	0.00E-01	0.00E-01	0.00E-01	0.00E-01	
E.	<u>Volume of Waste Released</u>	Liters	5.88E+07	7.67E+07	5.29E+07	4.96E+07	4%
F.	<u>Volume of Dilution Water for Period</u>	Liters	1.70E+09	1.86E+09	2.51E+09	1.66E+09	4%

*Applicable limits are expressed in terms of dose. See Tables 1 thru 4.

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LIQUID EFFLUENTS - TOTAL PLANT DISCHARGE

Nuclide Summary (Note: Refer to Table A for ODCM nuclides reported as 0.00E-01)
Required by ODCM/Others
Fission and Activation Products

Nuclide	Unit	Continuous Mode		Batch Mode	
		Quarter	Quarter	Quarter	Quarter
		1 st	2 nd	1 st	2 nd
1. Silver-110M	Ci	0.00E-01	0.00E-01	3.93E-04	1.44E-05
2. Cobalt-57	Ci	0.00E-01	0.00E-01	3.09E-04	8.34E-05
3. Cobalt-58	Ci	0.00E-01	0.00E-01	3.21E-02	2.80E-02
4. Cobalt-60	Ci	0.00E-01	0.00E-01	5.51E-03	1.16E-03
5. Chromium-51	Ci	0.00E-01	0.00E-01	8.41E-04	6.89E-04
6. Cesium-134	Ci	0.00E-01	0.00E-01	3.41E-04	0.00E-01
7. Cesium-137	Ci	0.00E-01	0.00E-01	1.48E-03	0.00E-01
8. Cesium-138	Ci	0.00E-01	0.00E-01	0.00E-01	7.41E-06
9. Iron-55	Ci	0.00E-01	0.00E-01	2.77E-03	2.61E-03
10. Iron-59	Ci	0.00E-01	0.00E-01	1.16E-05	1.37E-04
11. Iodine-131	Ci	0.00E-01	0.00E-01	1.34E-05	1.33E-03
12. Iodine-132	Ci	0.00E-01	0.00E-01	0.00E-01	1.16E-03
13. Iodine-133	Ci	0.00E-01	0.00E-01	0.00E-01	4.04E-05
14. Manganese-54	Ci	0.00E-01	0.00E-01	3.92E-04	1.33E-04
15. Sodium-24	Ci	0.00E-01	0.00E-01	1.04E-06	0.00E-01
16. Niobium-95	Ci	0.00E-01	0.00E-01	1.35E-04	1.92E-04
17. Rubidium-86	Ci	0.00E-01	0.00E-01	0.00E-01	1.81E-05
18. Rubidium-88	Ci	0.00E-01	0.00E-01	9.21E-04	0.00E-01
19. Ruthenium-103	Ci	0.00E-01	0.00E-01	3.40E-06	9.83E-08
20. Antimony-124	Ci	0.00E-01	0.00E-01	2.05E-04	3.52E-03
21. Antimony-125	Ci	0.00E-01	0.00E-01	3.67E-03	6.02E-03
22. Technetium-99M	Ci	0.00E-01	0.00E-01	7.28E-06	6.18E-06
23. Tellurium-129M	Ci	0.00E-01	0.00E-01	0.00E-01	1.56E-04
24. Tellurium-132	Ci	0.00E-01	0.00E-01	0.00E-01	8.79E-04
25. Zinc-65	Ci	0.00E-01	0.00E-01	9.87E-05	3.25E-06
26. Zinc-69M	Ci	0.00E-01	0.00E-01	3.48E-05	0.00E-01
27. Zirconium-95	Ci	0.00E-01	0.00E-01	1.09E-04	1.26E-04
Total for Period	Ci	0.00E-01	0.00E-01	4.94E-02	4.62E-02

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LIQUID EFFLUENTS - TOTAL PLANT DISCHARGE

G. Nuclide Summary (Note: Refer to Table A for ODCM nuclides reported as 0.00E-01)

Required by ODCM/Others

<u>Nuclide</u>	<u>Unit</u>	<u>Continuous Mode</u>		<u>Batch Mode</u>		
		<u>Quarter</u>	<u>Quarter</u>	<u>Quarter</u>	<u>Quarter</u>	
		<u>1st</u>	<u>2nd</u>	<u>1st</u>	<u>2nd</u>	
Tritium	H-3	Ci	1.83E-01	1.04E-01	1.11E+03	3.10E+02
Dissolved and Entrained Noble Gases						
1.	Argon-41	Ci	0.00E-01	0.00E-01	8.84E-05	2.67E-05
2.	Krypton-85	Ci	0.00E-01	0.00E-01	4.02E-03	0.00E-01
3.	Krypton-85M	Ci	0.00E-01	0.00E-01	5.64E-04	1.56E-05
4.	Krypton-88	Ci	0.00E-01	0.00E-01	1.83E-04	0.00E-01
4.	Xenon-133	Ci	0.00E-01	0.00E-01	2.24E+00	1.91E-01
5.	Xenon-133M	Ci	0.00E-01	0.00E-01	2.41E-02	1.43E-03
6.	Xenon-135	Ci	0.00E-01	0.00E-01	2.95E-02	1.62E-03
Total for Period		Ci	0.00E-01	0.00E-01	2.33E+00	2.04E-01

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LIQUID EFFLUENTS - TOTAL PLANT DISCHARGE

G. Nuclide Summary (Note: Refer to Table A for ODCM nuclides reported as 0.00E-01)

Required by ODCM/Others

Fission and Activation Products

Nuclide	Unit	Continuous Mode		Batch Mode	
		Quarter	Quarter	Quarter	Quarter
		3 rd	4 th	3 rd	4 th
1. Silver-110M	Ci	0.00E-01	0.00E-01	4.25E-05	1.71E-04
2. Cerium-144		0.00E-01	0.00E-01	0.00E-01	1.96E-05
3. Cobalt-57	Ci	0.00E-01	0.00E-01	2.85E-04	1.33E-04
4. Cobalt-58	Ci	0.00E-01	0.00E-01	1.74E-02	2.14E-02
5. Cobalt-60	Ci	0.00E-01	0.00E-01	1.18E-03	2.85E-03
6. Chromium-51	Ci	0.00E-01	0.00E-01	0.00E-01	5.32E-03
7. Cesium-134	Ci	0.00E-01	0.00E-01	3.51E-05	1.53E-04
8. Cesium-137	Ci	0.00E-01	0.00E-01	5.83E-05	2.80E-04
9. Cesium-138	Ci	0.00E-01	0.00E-01	2.60E-06	5.67E-06
10. Iron-55	Ci	0.00E-01	0.00E-01	1.92E-03	9.10E-03
11. Iron-59	Ci	0.00E-01	0.00E-01	4.11E-05	2.90E-03
12. Manganese-54	Ci	0.00E-01	0.00E-01	1.23E-04	3.86E-04
13. Sodium-24	Ci	0.00E-01	0.00E-01	5.36E-06	0.00E-01
14. Niobium-95	Ci	0.00E-01	0.00E-01	9.69E-05	6.06E-04
15. Rubidium-86	Ci	0.00E-01	0.00E-01	0.00E-01	2.35E-05
16. Antimony-124	Ci	0.00E-01	0.00E-01	3.19E-03	2.17E-03
17. Antimony-125	Ci	0.00E-01	0.00E-01	8.16E-03	1.32E-02
18. Yttrium-93	Ci	0.00E-01	0.00E-01	2.99E-05	0.00E-01
19. Zinc-65	Ci	0.00E-01	0.00E-01	0.00E-01	3.60E-06
20. Zirconium-95	Ci	0.00E-01	0.00E-01	2.63E-05	3.83E-04
Total for Period	Ci	0.00E-01	0.00E-01	3.26E-02	5.91E-02

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G. Nuclide Summary (Note: Refer to Table A for ODCM nuclides reported as 0.00E-01)

Required by ODCM/Others

<u>Nuclide</u>	<u>Unit</u>	<u>Continuous Mode</u>		<u>Batch Mode</u>	
		<u>Quarter</u>	<u>Quarter</u>	<u>Quarter</u>	<u>Quarter</u>
		<u>3rd</u>	<u>4th</u>	<u>3rd</u>	<u>4th</u>
H-3	Ci	1.71E-01	1.34E-01	3.77E+02	3.92E+02

Dissolved and Entrained Noble Gases

1. Argon-41	Ci	0.00E-01	0.00E-01	0.00E-01	1.72E-05
2. Xenon-133	Ci	0.00E-01	0.00E-01	2.24E-03	6.34E-03
3. Xenon-133M	Ci	0.00E-01	0.00E-01	0.00E-01	5.19E-05
4. Xenon-135	Ci	0.00E-01	0.00E-01	3.38E-05	2.68E-04
Total for Period	Ci	0.00E-01	0.00E-01	2.28E-03	6.67E-03

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**TABLE A
LIQUID "TYPICAL LLD" EVALUATION⁽¹⁾**

<u>Nuclide</u>	<u>ODCM LLD</u>	$\Delta t^{(2)}$		
		<u>1 hr</u>	<u>8 hr</u>	<u>32 hr</u>
Manganese-54	5.0E-07	3.36E-08	3.36E-08	3.37E-08
Cobalt-58	5.0E-07	2.53E-08	2.54E-08	2.56E-08
Iron-59	5.0E-07	5.26E-08	5.29E-08	5.37E-08
Cobalt-60	5.0E-07	4.63E-08	4.63E-08	4.64E-08
Zinc-65	5.0E-07	2.95E-08	2.95E-08	2.96E-08
Molybdenum-99	5.0E-07	1.55E-07	1.67E-07	2.15E-07
Cesium-134	5.0E-07	1.91E-08	1.91E-08	1.92E-08
Cesium-137	5.0E-07	3.87E-08	3.87E-08	3.87E-08
Cerium-141	5.0E-07	2.80E-08	2.81E-08	2.87E-08
Cerium-144	5.0E-06	1.11E-07	1.12E-07	1.12E-07
Iodine-131	1.0E-06	2.28E-08	2.34E-08	2.55E-08
Krypton-87	1.0E-05	1.16E-07	5.25E-07	(3)
Krypton-88	1.0E-05	9.95E-08	5.49E-07	(3)
Xenon-133	1.0E-05	4.19E-08	4.36E-08	4.98E-08
Xenon-133m	1.0E-05	1.42E-07	1.55E-07	2.13E-07
Xenon-135	1.0E-05	2.06E-08	3.50E-08	2.17E-07
Xenon-138	1.0E-05	8.37E-06	(3)	(3)

<u>Nuclide</u>	<u>ODCM LLD</u>	<u>Typical LLD</u>
Tritium	1.0E-05	1.2E-06
Gross Alpha	1.0E-07	2.0E-08
Strontium-89/90	5.0E-08	3.8E-08/1.4E-08
Iron-55	1.0E-06	1.3E-08

NOTES: (1) LLD values are in $\mu\text{Ci/ml}$.
 (2) Δt is the time between sample collection and counting time.
 (3) T $\frac{1}{2}$ too short.

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**GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES
(GROUND LEVEL RELEASES)**

<u>Summation of All Releases</u>	<u>Unit</u>	<u>1st Qtr</u>	<u>2nd Qtr</u>	<u>3rd Qtr</u>	<u>4th Qtr</u>	<u>%Error</u>
A. <u>Noble Gases</u>						
1. Total Released	Ci	8.66E+00	1.34E+02	3.63E+00	7.45E+00	11%
2. Average Release Rate of Period	μCi/sec	1.11E+00	1.70E+01	4.56E-01	9.38E-01	
3. Percent of Limit	%	*	*	*	*	
B. <u>Iodines</u>						
1. Total Iodine-131	Ci	2.84E-06	1.19E-03	0.00E-01	3.09E-06	13%
2. Average Release Rate for Period	μCi/sec	3.65E-07	1.31E-04	0.00E-01	3.89E-07	
3. Percent of Limit	%	*	*	*	*	
C. <u>Particulates</u>						
1. Particulates with half-lives >8 days	Ci	2.23E-05	6.63E-06	0.00E-01	1.96E-05	16%
2. Average Release Rate for Period	μCi/sec	2.87E-06	8.43E-06	0.00E-01	2.47E-06	
3. Percent of Limit	%	*	*	*	*	
4. Gross Alpha Radio-activity	Ci	0.00E-01	0.00E-01	0.00E-01	0.00E-01	
D. <u>Tritium</u>						
1. Total Release	Ci	1.28E+01	3.98E+01	2.15E+01	3.78E+01	15%
2. Average Release Rate for Period	μCi/sec	1.64E+00	5.06E+00	2.71E+00	4.76E+00	
3. Percent of Limit	%	*	*	*	*	

*Applicable limits are expressed in terms of dose. See Tables 5 thru 8.

**EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
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**GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES
(GROUND LEVEL RELEASES)**

1. Noble Gases

Required by
ODCM/Others

Nuclide	Unit	Continuous Mode		Batch Mode	
		Quarter	Quarter	Quarter	Quarter
		1st	2nd	1st	2nd
1. Krypton-85M	Ci	0.00E-01	0.00E-01	0.00E-01	4.26E-03
2. Xenon-133M	Ci	0.00E-01	0.00E-01	4.79E-03	1.09E-02
3. Xenon-135	Ci	0.00E-01	8.57E-01	4.20E-02	1.40E-01
4. Krypton-85	Ci	0.00E-01	0.00E-01	4.06E-01	1.84E-01
5. Xenon-131M	Ci	0.00E-01	0.00E-01	3.06E-02	8.38E-01
6. Argon-41	Ci	0.00E-01	0.00E-01	7.48E-01	2.00E+00
7. Xenon-133	Ci	4.42E+00	1.15E+02	3.01E+00	1.44E+01
Total for Period	Ci	4.42E+00	1.16E+02	4.24E+00	1.76E+01

2. Iodines

Iodine-133	Ci	0.00E-01	1.53E-04	0.00E-01	0.00E-01
Iodine-131	Ci	2.84E-06	1.03E-03	0.00E-01	0.00E-01
Total for Period	Ci	2.84E-06	1.19E-03	0.00E-01	0.00E-01

3. Particulates

1. Cobalt-58	Ci	2.23E-05	6.63E-05	0.00E-01	0.00E-01
Total for Period	Ci	2.23E-05	6.63E-05	0.00E-01	0.00E-01

4. Tritium	Ci	1.20E+01	3.91E+01	7.75E-01	7.17E-01
Total for Period	Ci	1.20E+01	3.91E+01	7.75E-01	7.17E-01

NOTE: Refer to Table B for ODCM nuclides reported as 0.00E-01.

**EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
2006**

**GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES
(GROUND LEVEL RELEASES)**

1. Noble Gases

Nuclide	Unit	Continuous Mode		Batch Mode	
		Quarter	Quarter	Quarter	Quarter
		3rd	4th	3rd	4th
1. Krypton-87	Ci	0.00E-01	0.00E-01	0.00E-01	1.80E-03
2. Xenon-133M	Ci	0.00E-01	0.00E-01	8.78E-03	1.27E-02
3. Krypton-85M	Ci	0.00E-01	0.00E-01	1.79E-03	1.86E-02
4. Xenon-135	Ci	0.00E-01	0.00E-01	9.76E-02	3.16E-01
5. Xenon-133	Ci	1.02E+00	0.00E-01	1.59E+00	2.41E+00
6. Argon-41	Ci	0.00E-01	0.00E-01	9.04E-01	4.69E+00
Total for Period	Ci	1.02E+00	0.00E-01	2.61E+00	7.45E+00

2. Iodines

1. Iodine-131	Ci	0.00E-01	3.09E-06	0.00E-01	0.00E-01
Total for Period	Ci	0.00E-01	3.09E-06	0.00E-01	0.00E-01

3. Particulates

1. Cobalt-58	Ci	0.00E-01	1.78E-05	0.00E-01	1.81E-06
Total for Period	Ci	0.00E-01	1.78E-05	0.00E-01	1.81E-06

4. Tritium

	Ci	2.03E+01	3.67E+01	1.22E+00	1.08E+00
Total for Period	Ci	2.03E+01	3.67E+01	1.22E+00	1.08E+00

NOTE: Refer to Table B for ODCM nuclides reported as 0.00E-01.

**EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
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**TABLE B
GASEOUS "TYPICAL" LLD EVALUATION⁽¹⁾**

Noble Gas

<u>Nuclide</u>	<u>ODCM LLD</u>	$\Delta t^{(2)}$	
		<u>1 hr</u>	<u>1.5 hr</u>
Krypton-87	1.0E-04	2.08E-06	2.73E-06
Krypton-88	1.0E-04	1.61E-06	1.81E-06
Xenon-133	1.0E-04	6.61E-07	6.63E-07
Xenon-133m	1.0E-04	2.34E-06	2.35E-06
Xenon-135	1.0E-04	3.43E-07	3.56E-07
Xenon-138	1.0E-04	1.40E-04	6.10E-04

Particulate Sample⁽³⁾

		<u>1 hr</u>	<u>24 hr</u>	<u>7.0 da</u>
		Manganese-54	1.0E-10	7.47E-12
Cobalt-58	1.0E-10	5.62E-12	2.35E-13	3.46E-14
Iron-59	1.0E-10	1.20E-11	5.02E-13	7.49E-14
Cobalt-60	1.0E-10	1.07E-11	4.46E-13	6.38E-14
Zinc-65	1.0E-10	6.71E-12	2.80E-13	4.03E-14
Molybdenum-99	1.0E-10	3.43E-11	1.61E-12	4.70E-13
Cesium-134	1.0E-10	4.25E-12	1.77E-13	2.54E-14
Cesium-137	1.0E-10	8.48E-12	3.54E-13	5.05E-14
Cerium-141	1.0E-10	5.10E-12	2.15E-13	3.26E-14
Cerium-144	1.0E-10	2.01E-11	8.33E-13	1.20E-13
Iodine-131	1.0E-10	4.76E-12	2.07E-13	3.77E-14

Charcoal Sample

Iodine-131	1.0E-11	7.25E-12	3.15E-13	5.74E-14
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(1) LLD values are in $\mu\text{Ci/ml}$.

(2) Δt is the time between sample collection and counting time.

(3) LLD based on sample time + 30 min. sample to analysis.

**EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
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**TABLE B
GASEOUS "TYPICAL" LLD EVALUATION⁽¹⁾**

<u>Nuclide</u>	<u>ODCM LLD</u>	<u>Typical LLD</u>
Tritium	1.0E-06	1.0E-11
Gross Alpha	1.0E-11	1.5E-14
Strontium-89	1.0E-11	1.0E-14
Strontium-90	1.0E-11	1.0E-15

NOTES: (1) LLD values are in $\mu\text{Ci/cc}$.

- (2) Δt for noble gases is the time from sampling to analysis.
 Δt for charcoal and particulate samples is the midpoint of sampling to analysis.

**EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
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SOLID WASTE (RADIOACTIVE SHIPMENTS)

A. Solid Waste Shipped Offsite for Burial or Disposal (not Irradiated Fuel)

1. <u>Type of Waste</u>	<u>Unit</u>	<u>12 Month Period</u>	<u>Est. Tot. Error %</u>
a. Spent Resins, Filter Sludges, Evaporator Bottoms, etc.	m ³ Ci	2.21E+01 2.75E+02	+1.00E+00 +1.00E+00
b. Dry Active Waste, Compressible Waste Contaminated Equipment, etc.	m ³ Ci	1.57E+01 1.26E+00	+1.00E+00 +5.00E+00
c. Irradiated Components, Control Rods, etc.	m ³ Ci	None None	N/A N/A
d. Other: Mechanical Filters	m ³ Ci	3.41E+00 2.64E+01	+1.00E+00 +5.00E+00

2. Estimate of Major Nuclide Composition (by type of waste)

a. Spent resins, filter sludges, evaporator bottoms, etc. (nuclides determined by measurement)

	<u>Curies</u>	<u>Percent</u>
1. Hydrogen-3	2.05E-01	0.07
2. Carbon-14	8.61E-01	0.31
3. Beryllium-7	4.15E-01	0.15
4. Manganese-54	7.69E+00	2.80
5. Iron-55	2.64E+01	9.61
6. Cobalt-57	1.17E+00	0.43
7. Cobalt-58	1.49E+01	5.42
8. Nickel-59	1.31E+00	0.48
9. Cobalt-60	6.97E+01	25.38
10. Nickel-63	1.26E+02	45.80
11. Zinc-65	8.66E-01	0.32
12. Strontium-89	8.05E-02	0.03
13. Strontium-90	9.52E-02	0.03
14. Technetium-99	3.83E-02	0.01
15. Silver-110m	5.63E-01	0.21
16. Antimony-125	9.02E-01	0.33
17. Cesium-134	5.93E+00	2.16
18. Cesium-137	1.73E+01	6.30
19. Cerium-144	3.84E-01	0.14
20. Plutonium-238	5.59E-04	0.00
21. Plutonium-239/240	2.78E-04	0.00
22. Plutonium-241	4.70E-02	0.02
23. Americium-241	2.94E-04	0.00
24. Curium-242	7.85E-05	0.00
25. Curium-243/244	1.27E-03	0.00

**EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
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SOLID WASTE (RADIOACTIVE SHIPMENTS)

2. Estimate of Major Nuclide Composition (by type of waste) (Cont.)

b. Dry active waste, compressible waste, contaminated equipment, etc. (nuclides determined by estimate)

	<u>Curies</u>	<u>Percent</u>
1. Chromium-51	3.30E-02	2.62
2. Manganese-54	3.68E-03	0.29
3. Iron-55	2.62E-01	20.79
4. Cobalt-57	2.95E-04	0.02
5. Cobalt-58	7.48E-02	5.92
6. Iron-59	1.31E-03	0.10
7. Cobalt-60	4.03E-01	31.95
8. Nickel-63	3.74E-01	29.62
9. Zinc-65	8.17E-04	0.07
10. Zirconium-95	4.44E-03	0.35
11. Niobium-95	7.76E-03	0.62
12. Silver-110m	4.46E-04	0.04
13. Tin-113	2.26E-04	0.02
14. Antimony-125	5.22E-03	0.41
15. Cesium-134	3.61E-03	0.29
16. Cesium-137	8.59E-02	6.80
17. Plutonium-238	1.69E-05	0.00
18. Plutonium-239/240	2.22E-05	0.00
19. Plutonium-241	1.00E-03	0.08
20. Americium-241	2.07E-05	0.00
21. Curium-243/244	2.85E-05	0.00

c. Irradiated Components	<u>Curies</u>	<u>Percent</u>
None	N/A	N/A

**EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
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2. Estimate of Major Nuclide Composition (by type of waste) (Cont.)

d. Other: Mechanical Filters

	<u>Curies</u>	<u>Percent</u>
1. Carbon-14	3.66E-01	1.38
2. Manganese-54	3.08E-01	1.16
3. Iron-55	1.09E+01	41.20
4. Cobalt-57	2.11E-02	0.08
5. Cobalt-58	4.14E-02	0.16
6. Nickel-59	1.38E-02	0.05
7. Cobalt-60	5.98E+00	22.60
8. Nickel-63	1.37E+00	5.18
9. Zinc-65	3.17E-02	0.12
10. Technetium-99	1.83E-02	0.07
11. Silver-110m	2.57E-02	0.10
12. Antimony-125	3.31E-02	0.13
13. Cesium-134	2.27E+00	8.58
14. Cesium-137	5.06E+00	19.13
15. Cerium-144	6.67E-03	0.03
16. Plutonium-238	5.21E-05	0.00
17. Plutonium-239/240	1.18E-05	0.00
18. Plutonium-241	8.70E-03	0.03
19. Americium-241	2.65E-05	0.00
20. Curium-242	3.41E-05	0.00
21. Curium-243/244	3.08E-04	0.00

**EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
2006**

SOLID WASTE (RADIOACTIVE SHIPMENTS)

3. Solid Waste Disposition

a. Spent resins, filter sludges, evaporator bottoms, etc.

Number of Shipments	Type Quantity	Mode of Transportation	Destination
3	A-LSA II	Motor Freight	Chem-Nuclear Barnwell, SC
3	Type B	Motor Freight	Chem-Nuclear Barnwell, SC

b. Dry active waste, compressible waste, contaminated equipment, etc.

Number of Shipments	Type Quantity	Mode of Transportation	Destination
20*	A-LSA II	Motor Freight	Envirocare near Clive, Utah
2	A-LSA II	Motor Freight	Chem-Nuclear Barnwell, SC

*20 of the shipments were shipped by a waste processor.

c. Irradiated components, control rods, etc.

Number of Shipments	Type Quantity	Mode of Transportation	Destination
None	N/A	N/A	N/A

d. Other: Mechanical Filters

Number of Shipments	Type Quantity	Mode of Transportation	Destination
1	B-LSA II	Motor Freight	Chem-Nuclear Barnwell, SC

4. Irradiated Fuel Shipments (Disposition)

Number of Shipments	Type Quantity	Mode of Transportation	Destination
None	N/A	N/A	N/A

5. Solidification of Waste

Was solidification performed? No
If yes, solidification media:

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
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Independent Spent Storage Installation

SQN implemented use of an independent spent storage installation (ISFSI) on July 13, 2004. The ISFSI is located on site, within the protected area and is designed to hold 90 spent fuel canisters. The ISFSI is considered part of plant operations for the purposes of the radiological environmental monitoring program.

SQN ISFSI TS 5.4a states "The HI-Storm 100 Cask system does not create any radioactive material or have any radioactive waste treatment systems. Therefore, specific operating procedures for the control of radioactive effluents are not required. Specification 3.1.1, Multi-Purpose Canister (MPC) provides assurances that there are no radioactive effluents from spent fuel storage canister."

The EPA limits for the total dose to the public in the vicinity of a nuclear power plant, established in the Environmental Dose Standard of 40 CFR 190, are as follows:

Total Body	not to exceed 25 mrem/year
Thyroid	not to exceed 75 mrem/year
Any other organ	not to exceed 25 mrem/year

The SQN ISFSI is considered part of the SQN site and part of plant operations and any radioactive release is included in this report as total site releases. These releases are within 40 CFR 190 limits and 10 CFR 72.104 limits.

ENCLOSURE 2

RADIOLOGICAL IMPACT ASSESSMENT REPORT

SEQUOYAH NUCLEAR PLANT

JANUARY - DECEMBER 2006

INTRODUCTION

Potential doses to maximum individuals and the population around Sequoyah Nuclear Plant (SQN) are calculated for each quarter as required in Section 5.2 of the Offsite Dose Calculation Manual (ODCM). Measured plant releases for the reporting period are used to estimate these doses. Dispersion of radioactive effluents in the environment is estimated using meteorological data and riverflow data measured during the period. In this report, the doses resulting from releases are described and compared to limits established for SQN.

DOSE LIMITS

The ODCM specifies limits for the release of radioactive effluents, as well as limits for doses to the general public from the release of radioactive effluents. These limits are set well below the Technical Specification limits which govern the concentrations of radioactivity and doses permissible in unrestricted areas. This ensures that radioactive effluent releases are "As Low As Reasonably Achievable."

The limits for doses in unrestricted areas from airborne noble gases releases are:

Less than or equal to 5 mrad per quarter and
10 mrad per year (per reactor unit) for gamma radiation,
- and -
Less than or equal to 10 mrad per quarter and
20 mrad per year (per reactor unit) for beta radiation.

The limit for the dose to a member of the general public in an unrestricted area from iodines and particulates released in airborne effluents is:

Less than or equal to 7.5 mrem per quarter and
15 mrem per year (per reactor unit) to any organ.

The limit for doses to a member of the general public from radioactive material in liquid effluents released to unrestricted areas is:

Less than or equal to 1.5 mrem per quarter and
3 mrem per year (per reactor unit) to the total body,
- and -
Less than or equal to 5 mrem per quarter and
10 mrem per year (per reactor unit) to any organ

The EPA limits for total dose to the public in the vicinity of a nuclear power plant, established in the Environmental Dose Standard of 40 CFR 190 are:

Less than or equal to 25 mrem per year to the total body,
Less than or equal to 75 mrem per year to the thyroid,
- and -
Less than or equal to 25 mrem per year to any other organ.

DOSE CALCULATIONS

Estimated doses to the public are determined using computer models: Gaseous Effluent Licensing Code (GELC), and the Quarterly Water Dose Assessment Code (QWATA). These models are based on guidance provided by the NRC (in Regulatory Guides 1.109, 1.111 and 1.113) for determining the potential dose to individuals and populations living in the vicinity of the plant. The area around the plant is analyzed to determine the pathways through which the public may receive a dose. The doses calculated are a representation of the dose to a "maximum exposed individual." Some of the factors used in these calculations (such as ingestion rates) are maximum values. Many of these factors are obtained from NUREG/CR-1004. The values chosen will tend to overestimate the dose to this "maximum" person. The expected dose to actual individuals is lower. The calculated doses are presented in Tables 1 through 9.

DOSES FROM AIRBORNE EFFLUENTS

For airborne effluents, the public can be exposed to radiation from several sources: direct radiation from the radioactivity in the air, direct radiation from radioactivity deposited on the ground, inhalation of airborne radioactivity, ingestion of vegetation which contains radioactivity deposited from the atmosphere, and ingestion of milk and beef which contains radioactivity deposited from the atmosphere onto vegetation and subsequently eaten by milk and beef animals.

Airborne Discharge Points

Releases from SQN are considered ground-level releases. The ground-level Joint Frequency Distribution (JFD) is derived from windspeeds and directions measured 10 meters above ground and from the vertical temperature difference between 10 and 46 meters, and are presented for each quarter in Attachment 1.0.

Meteorological Data

Meteorological variables at SQN are measured continuously. Measurements collected include wind speed, wind direction, and temperature at heights of 10, 46, and 91 meters above the ground. Quarterly joint frequency distributions (JFDs) are calculated for each release point using the appropriate levels of meteorological data. A JFD gives the percentage of the time in a quarter that the wind is blowing out of a particular upwind compass sector in a particular range of wind speeds for a given stability Class A through G. The wind speeds are divided into nine wind speed ranges. Calms are distributed by direction in proportion to the distribution of noncalm wind directions less than 0.7 m/s (1.5 mph). Stability classes are determined from the vertical temperature difference between two measurement levels.

External Exposure Dose

Dose estimates for maximum external air dose (gamma-air and beta-air doses) are made for points at and beyond the unrestricted area boundary as described in the SQN ODCM. The highest of these doses is then selected.

Submersion Dose

External doses to the skin and total body, due to submersion in a cloud of noble gases, are estimated for the nearest residence in each sector. The residence with the highest dose is then selected from all sectors.

Organ Dose

Doses to organs due to releases of airborne effluents are estimated for the inhalation, ground contamination, and ingestion pathways. The ingestion pathway is further divided into four possible contributing pathways: ingestion of cow/goat milk, ingestion of beef, and ingestion of vegetables. Doses from applicable pathways are calculated for each real receptor location identified in the most recent land use survey. To determine the maximum organ dose, the doses from the pathways are summed for each receptor. For the ingestion dose, however, only those pathways that exist for each receptor are considered in the sum, i.e., milk ingestion doses are included only for locations where milk is consumed without commercial preparation and vegetable ingestion is included only for those locations where a garden is identified. To conservatively account for beef ingestion, a beef ingestion dose equal to that for the highest unrestricted area boundary location is added to each identified receptor. For ground contamination, the dose added to the organ dose being calculated is the total body dose calculated for that location, i.e., it is assumed that the dose to an individual organ is equal to the total body dose.

Doses from airborne effluents are presented in Tables 1 through 4.

DOSES FROM LIQUID EFFLUENTS

For liquid effluents, the public can be exposed to radiation from three sources: the ingestion of water from the Tennessee River, the ingestion of fish caught in the Tennessee River, and direct exposure from radioactive material deposited on the river shoreline sediment (recreation).

The concentrations of radioactivity in the Tennessee River are estimated by a computer model which uses measured hydraulic data downstream of SQN. Parameters used to determine the doses are based on guidance given by the NRC (in Regulatory Guides 1.109) for maximum ingestion rates, exposure times, etc. Wherever possible, parameters used in the dose calculation are site specific use factors determined by TVA. The models that are used to estimate doses, as well as the parameters input to the models, are described in detail in the SQN ODCM.

Liquid Release Points and River Data

Radioactivity concentrations in the Tennessee River are calculated assuming that releases in liquid effluents are continuous. Routine liquid releases from SQN, located at Tennessee River Mile 484, are made through diffusers which extend into the Tennessee River. It is assumed that releases to the river through these diffusers will initially be entrained in one-fifth of the water which flows past the plant. The QWATA code makes the assumption that this mixing condition holds true until the water is completely mixed at the first downstream dam, at Tennessee River Mile 471.0.

Doses are calculated for locations within a 50-mile radius downstream of the plant site. The maximum potential recreation dose is calculated for a location immediately downstream from the plant outfall. The maximum individual dose from ingestion of fish is assumed to be that calculated for the consumption of fish caught anywhere between the plant and the first downstream dam (Chickamauga Dam). The maximum individual dose from drinking water is assumed to be that calculated at the nearest downstream public water supply (East Side Utilities). This could be interpreted as indicating that the maximum individual, as assumed for liquid releases from Sequoyah, is an individual who obtains all of his drinking water at East Side Utilities, consumes fish caught from the Tennessee River between SQN and Chickamauga Dam, and spends 500 hours per year on the shoreline just below the outfall from Sequoyah. Dose estimates for the maximum individual due to liquid effluents for each quarter in the period are presented in Tables 5 through 8, along with the average river flows past the plant site for the periods.

Population doses are calculated assuming that each individual consumes milk, vegetables, and meat produced within the sector annulus in which he resides. Doses from external pathways and inhalation are based on the 50-mile human population distribution.

POPULATION DOSES

Population doses for highest exposed organ due to airborne effluents are calculated for an estimated 1,060,000 persons living within a 50-mile radius of the plant site. Doses from external pathways and inhalation are based on the 50-mile human population distribution.

Ingestion population doses for total body and the maximum exposed organ due to liquid effluents are calculated for the entire downstream Tennessee River population. Water ingestion population doses are calculated using actual population figures for downstream public water supplies. Fish ingestion population doses are calculated assuming that all sport fish caught in the Tennessee River are consumed by the Tennessee River population. Recreation population doses are calculated using actual recreational data on the number of shoreline visits at downstream locations.

Population dose estimates for airborne and liquid effluents are presented in Tables 1 through 8.

DIRECT RADIATION

External gamma radiation levels were measured by thermoluminescent dosimeters (TLDs) deployed around SQN as part of the offsite Environmental Radiological Monitoring Program. The quarterly gamma radiation levels determined from these TLDs during this reporting period averaged approximately 15.5 mR/quarter at onsite (at or near the site boundary) stations and approximately 14.00 mR/quarter at offsite stations, or approximately 1.5 mR/quarter higher onsite than at offsite stations. This difference is consistent with levels measured for preoperation and construction phases of the TVA nuclear plant site where the average radiation levels onsite were generally 2-6 mR/quarter higher than the levels offsite. This may be attributable to natural variations in environmental radiation levels, earth moving activities onsite, the mass of concrete employed in the construction of the plants, or other

undetermined influences. Fluctuations in natural background dose rates and in TLD readings tend to mask any small increments which may be due to plant operations. Thus, there was no identifiable increase in dose rate levels attributable to direct radiation from plant equipment and/or gaseous effluents.

DOSE TO A MEMBER OF THE PUBLIC INSIDE THE UNRESTRICTED AREA BOUNDARY

As stated in the SQN Offsite Dose Calculation Manual, an evaluation of the dose to a member of the public inside the unrestricted area boundary is performed for a hypothetical TVA employee who works just outside the restricted area fence for an entire work year (2000/8760 hours). Results from onsite TLD measurements for the calendar year in question indicate that the highest onsite TLD reading was 84 mrem. Using this value, and subtracting an annual background value of 62 mrem/year, and multiplying by the ratio of the occupancy times, the external dose was 5.02 mrem. The doses due to radioactive effluents released to the atmosphere calculated in this report would not add a significant amount to this measured dose. This dose is well below the 10 CFR 20 annual limit of 100 mrem.

TOTAL DOSE

To determine compliance with 40 CFR 190, annual total dose contributions to the maximum individual from SQN radioactive effluents and other nearby uranium fuel cycle sources are considered.

The annual dose to any organ other than thyroid for the maximum individual is conservatively estimated by summing the following doses: the total body air submersion dose for each quarter, the critical organ dose (for any organ other than the thyroid) from airborne effluents for each quarter from ground contamination, inhalation and ingestion, the total body dose from liquid effluents for each quarter, the maximum organ dose (for any organ other than the thyroid) from liquid effluents for each quarter, and any identifiable increase in direct radiation dose levels as measured by the environmental monitoring program. This dose is compared to the 40 CFR 190 limit for total body or any organ dose (other than thyroid) to determine compliance.

The annual thyroid dose to the maximum individual is conservatively estimated by summing the following doses: the total body air submersion dose for each quarter, the thyroid dose from airborne effluents for each quarter, the total body dose from liquid effluents for each quarter, the thyroid dose from liquid effluents for each quarter, and any identifiable increase in direct radiation dose levels as measured by the environmental monitoring program. This dose is compared to the 40 CFR 190 limit for thyroid dose to determine compliance.

Cumulative annual total doses are presented in Table 9.

Table 3
Doses from Airborne Effluents
Third Quarter

Individual Doses

Pathway	Dose	Quarterly Limit	Percent of Limit	Location Sector/Distance
External				
Gamma Air	3.20E-03 mrad	5 mrad	<1	S/1340
Beta Air	2.13E-03 mrad	10 mrad	<1	S/1340
Submersion				
Total Body	2.17E-03 mrad	10 mrad	<1	S/1585
Skin	3.43E-03 mrad	10 mrad	<1	S/1585
Organ Doses				
Child/Thyroid	2.91E-02 mrem	7.5 mrem	<1	S/2254
Child/Total Body	2.91E-02 mrem	7.5 mrem	<1	S/2254

Population Doses

Total Body Dose 2.77E-02 man-rem

Maximum Organ Dose (organ) 2.77E-02 man-rem (thyroid)

Population doses can be compared to the natural background dose for the entire 50-mile population of about 95,400 man-rem/year (based on 90 mrem/yr for natural background).

Table 6
Doses from Liquid Effluents
Second Quarter

Individual Doses (mrem)

Age Group	Organ	Dose	Quarterly Limit	Percent of Limit
Child	Total Body	3.90E-03	1.5 mrem	< 1 %
Child	GIT	4.10E-03	5 mrem	< 1 %
Child	Thyroid	4.40E-03	5 mrem	< 1 %

Average Riverflow past SQN (cubic feet per second): 15,948

Population Doses

Total Body Dose 2.60E-01 man-rem

Maximum Organ Dose (organ) 2.70E-01 man-rem (Thyroid)

Population doses can be compared to the natural background dose for the entire 50-mile population of about 95,400 man-rem/year (based on 90 mrem/yr for natural background).

**Table 7
Doses from Liquid Effluents
Third Quarter**

Individual Doses (mrem)

Age Group	Organ	Dose	Quarterly Limit	Percent of Limit
Child	Total Body	3.30E-03	1.5 mrem	< 1 %
Child	GIT	3.40E-03	5 mrem	< 1 %
Child	Thyroid	3.30E-03	5 mrem	< 1 %

Average Riverflow past SQN (cubic feet per second): 23,066

Population Doses

Total Body Dose 2.30E-01 man-rem

Maximum Organ Dose (organ) 2.30E-01 man-rem (Bone, GIT, Thyroid,
Liver, Kidney, Lung)

Population doses can be compared to the natural background dose for the entire 50-mile population of about 95,400 man-rem/year (based on 90 mrem/yr for natural background).

Table 8
Doses from Liquid Effluents
Fourth Quarter

Individual Doses (mrem)

Age Group	Organ	Dose	Quarterly Limit	Percent of Limit
Child	Total Body	2.50E-03	1.5 mrem	< 1 %
Child	GIT	2.60E-03	5 mrem	< 1 %
Child	Thyroid	2.40E-03	5 mrem	< 1 %

Average River flow past SQN (cubic feet per second): 33,463

Population Doses

Total Body Dose 1.60E-01 man-rem

Maximum Organ Dose (organ) 1.60E-01 man-rem (Bone, GIT, Thyroid, Liver, Kidney, Lung)

Population doses can be compared to the natural background dose for the entire 50-mile population of about 95,400 man-rem/year (based on 90 mrem/yr for natural background).

Table 9

Total Dose from Fuel Cycle

Dose	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	
Total Body or any Organ (except thyroid)					
Total body air submersion	1.55E-03	9.78E-03	2.17E-03	1.15E-02	
Critical organ dose (air)	1.58E-02	6.16E-02	2.77E-02	6.20E-02	
Total body dose (liquid)	8.00E-03	3.90E-03	3.30E-03	2.50E-03	
Maximum organ dose (liquid)	8.50E-03	4.10E-03	3.40E-03	2.60E-03	
Direct Radiation Dose	0.00E-00	0.00E-00	0.00E-00	0.00E-00	
Total	3.39E-02	7.94E-02	3.66E-02	7.86E-02	
Cumulative Total Dose (Total body or any other organ) mrem					2.29E-01
<i>Annual Dose Limit (mrem)</i>					25
Percent of Limit					0.92
Thyroid Dose (mrem)					
Total body air submersion	1.55E-03	9.78E-03	2.17E-03	1.15E-02	
Thyroid dose (airborne)	7.81E-03	5.02E-02	2.91E-02	3.56E-02	
Total body dose (liquid)	8.00E-03	3.90E-03	3.30E-03	2.50E-03	
Thyroid dose (liquid)	7.90E-03	4.40E-03	3.30E-03	2.40E-03	
Direct Radiation Dose	0.00E-00	0.00E-00	0.00E-00	0.00E-00	
Total	2.53E-02	6.83E-02	3.79E-02	5.20E-02	
Cumulative Total Dose (Thyroid) mrem					1.84E-01
<i>Annual Dose Limit (mrem)</i>					75
Percent of Limit					0.25

Attachment 1.0

Joint Frequency Distribution Tables

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR
 STABILITY CLASS A (DELTA T<=-1.9 C/100 M)

Sequoyah Nuclear Plant

JAN 1, 2006 - MAR 31, 2006

WIND DIRECTION TOTAL	CALM	0.6-1.4	1.5-3.4	WIND SPEED(MPH)		7.5-12.4	12.5-18.4	18.5-24.4	>=24.5
				3.5-5.4	5.5-7.4				
N	0.000	0.000	0.000	0.000	0.093	0.093	0.000	0.000	0.000
0.187									
NNE	0.000	0.000	0.000	0.000	0.000	0.140	0.000	0.000	0.000
0.140									
NE	0.000	0.000	0.000	0.000	0.000	0.140	0.000	0.000	0.000
0.140									
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
SE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
S	0.000	0.000	0.000	0.000	0.187	0.000	0.000	0.000	0.000
0.187									
SSW	0.000	0.000	0.000	0.000	0.933	0.653	0.000	0.000	0.000
1.546									
SW	0.000	0.000	0.000	0.047	0.560	0.233	0.000	0.000	0.000
0.840									
WSW	0.000	0.000	0.000	0.000	0.000	0.140	0.000	0.000	0.000
0.140									
W	0.000	0.000	0.000	0.000	0.047	0.093	0.000	0.000	0.000
0.140									
WNW	0.000	0.000	0.000	0.000	0.000	0.093	0.000	0.000	0.000
0.093									
NW	0.000	0.000	0.000	0.000	0.140	0.280	0.000	0.000	0.000
0.420									
NNW	0.000	0.000	0.000	0.000	0.187	0.560	0.000	0.000	0.000
0.746									
SUBTOTAL	0.000	0.000	0.000	0.047	2.146	2.425	0.000	0.000	0.000
4.614									

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2150
 TOTAL HOURS OF STABILITY CLASS A 99
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A 99
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2144
 TOTAL HOURS CALM 0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2006/05/26

MEAN WIND SPEED = 7.84

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR
 STABILITY CLASS B (-1.9< DELTA T<--1.7 C/100 M)

Sequoyah Nuclear Plant

JAN 1, 2006 - MAR 31, 2006

WIND DIRECTION TOTAL	WIND SPEED(MPH)								
	CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	>=24.5
N	0.000	0.000	0.000	0.000	0.137	0.187	0.000	0.000	0.000
0.373									
NNE	0.000	0.000	0.000	0.093	0.187	0.326	0.047	0.000	0.000
0.653									
NE	0.000	0.000	0.000	0.093	0.140	0.137	0.000	0.000	0.000
0.420									
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
SE	0.000	0.000	0.000	0.000	0.047	0.000	0.000	0.000	0.000
0.047									
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
S	0.000	0.000	0.000	0.000	0.000	0.093	0.000	0.000	0.000
0.093									
SSW	0.000	0.000	0.000	0.093	0.560	0.240	0.000	0.000	0.000
0.933									
SW	0.000	0.000	0.000	0.000	0.466	0.233	0.000	0.000	0.000
0.700									
WSW	0.000	0.000	0.000	0.000	0.047	0.047	0.000	0.000	0.000
0.093									
W	0.000	0.000	0.000	0.000	0.047	0.093	0.000	0.000	0.000
0.140									
WNW	0.000	0.000	0.000	0.000	0.047	0.047	0.000	0.000	0.000
0.093									
NW	0.000	0.000	0.000	0.047	0.047	0.093	0.000	0.000	0.000
0.147									
NNW	0.000	0.000	0.000	0.000	0.240	0.140	0.000	0.000	0.000
0.420									
SUBTOTAL	0.000	0.000	0.000	0.326	2.052	1.726	0.047	0.000	0.000
4.151									

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2150
 TOTAL HOURS OF STABILITY CLASS B 49
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B 49
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2144
 TOTAL HOURS CALM 0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

2006/05/26

MEAN WIND SPEED = 7.44

DATE PRINTED:

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS C (-1.7< DELTA T<=-1.5 C/100 M)

Sequoyah Nuclear Plant

JAN 1, 2006 - MAR 31, 2006

WIND DIRECTION TOTAL	WIND SPEED (MPH)								
	CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	>=24.5
N	0.000	0.000	0.000	0.093	0.140	0.093	0.000	0.000	0.000
0.326									
NNE	0.000	0.000	0.000	0.233	0.326	0.233	0.047	0.000	0.000
0.840									
NE	0.000	0.000	0.093	0.047	0.233	0.093	0.000	0.000	0.000
0.466									
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
SE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
S	0.000	0.000	0.000	0.047	0.140	0.140	0.000	0.000	0.000
0.326									
SSW	0.000	0.000	0.000	0.233	0.420	0.290	0.000	0.000	0.000
0.933									
SW	0.000	0.000	0.000	0.240	0.933	0.047	0.000	0.000	0.000
1.259									
WSW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
W	0.000	0.000	0.000	0.000	0.000	0.093	0.000	0.000	0.000
0.093									
WNW	0.000	0.000	0.000	0.000	0.047	0.147	0.000	0.000	0.000
0.233									
NW	0.000	0.000	0.000	0.000	0.140	0.047	0.000	0.000	0.000
0.147									
NNW	0.000	0.000	0.000	0.000	0.000	0.140	0.000	0.000	0.000
0.140									
SUBTOTAL	0.000	0.000	0.093	0.933	2.379	1.353	0.047	0.000	0.000
4.804									

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2150
 TOTAL HOURS OF STABILITY CLASS C 103
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C 103
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2144
 TOTAL HOURS CALM 0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2006/05/26

MEAN WIND SPEED - 6.79

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS D (-1.5 < DELTA T < -0.5 C/100 M)

Sequoyah Nuclear Plant

JAN 1, 2006 - MAR 31, 2006

WIND DIRECTION TOTAL	CALM	WIND SPEED (MPH)							
		0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	13.5-24.4	>=24.5
N	0.000	0.140	0.513	1.073	1.632	1.213	0.000	0.000	0.000
4.571									
NNE	0.000	0.000	1.166	1.306	1.866	2.052	0.000	0.000	0.000
6.390									
NE	0.000	0.093	1.073	0.700	0.653	0.093	0.000	0.000	0.000
2.612									
ENE	0.000	0.047	0.140	0.000	0.000	0.000	0.000	0.000	0.000
0.187									
E	0.000	0.000	0.140	0.093	0.000	0.000	0.000	0.000	0.000
0.233									
ESE	0.000	0.000	0.093	0.047	0.000	0.000	0.000	0.000	0.000
0.140									
SE	0.000	0.000	0.047	0.093	0.047	0.000	0.000	0.000	0.000
0.197									
SSE	0.000	0.000	0.233	0.047	0.000	0.033	0.000	0.000	0.000
0.373									
S	0.000	0.000	0.746	0.560	0.233	0.326	0.140	0.000	0.000
2.006									
SSW	0.000	0.093	0.933	1.632	0.466	0.700	0.000	0.000	0.000
3.825									
SW	0.000	0.000	0.606	1.026	0.933	0.197	0.000	0.000	0.000
2.752									
WSW	0.000	0.093	0.326	0.197	0.047	0.000	0.000	0.000	0.000
0.653									
W	0.000	0.000	0.290	0.466	0.420	0.513	0.000	0.000	0.000
1.679									
WNW	0.000	0.000	0.197	0.466	0.420	0.606	0.000	0.000	0.000
1.679									
NW	0.000	0.047	0.140	0.653	0.606	0.496	0.000	0.000	0.000
2.332									
NNW	0.000	0.000	0.373	0.793	1.073	1.213	0.000	0.000	0.000
3.451									
SUBTOTAL	0.000	0.513	6.996	9.142	8.396	7.442	0.140	0.000	0.000
33.069									

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2150
TOTAL HOURS OF STABILITY CLASS D	714
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D	709
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2144
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2006/05/26

MEAN WIND SPEED - 5.58

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS E (-0.5 < DELTA T <= 1.5 C/100 M)

Sequoyah Nuclear Plant

JAN 1, 2006 - MAR 31, 2006

WIND DIRECTION TOTAL	WIND SPEED (MPH)								
	CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	>=24.5
N	0.000	0.187	1.493	1.539	0.326	0.140	0.000	0.000	0.000
3.685 NNE	0.000	0.233	2.285	1.772	0.793	0.280	0.000	0.000	0.000
5.364 NE	0.000	0.093	0.373	0.280	0.000	0.000	0.000	0.000	0.000
0.746 ENE	0.000	0.093	0.047	0.047	0.000	0.000	0.000	0.000	0.000
0.187 E	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000
0.047 ESE	0.000	0.093	0.093	0.000	0.000	0.000	0.000	0.000	0.000
0.187 SE	0.000	0.093	0.140	0.093	0.000	0.000	0.000	0.000	0.000
0.326 SSE	0.000	0.187	0.373	0.187	0.280	0.373	0.000	0.000	0.000
1.399 S	0.000	0.187	2.146	1.119	0.700	0.979	0.093	0.000	0.000
5.224 SSW	0.000	0.047	3.451	1.919	1.073	0.373	0.000	0.000	0.000
6.763 SW	0.000	0.140	2.492	1.772	0.653	0.093	0.000	0.000	0.000
5.550 WSW	0.000	0.047	0.840	0.466	0.373	0.147	0.000	0.000	0.000
1.912 W	0.000	0.047	0.420	0.233	0.147	0.147	0.000	0.000	0.000
1.073 WNW	0.000	0.093	0.466	0.420	0.047	0.000	0.000	0.000	0.000
1.026 NW	0.000	0.047	0.373	0.746	0.420	0.147	0.000	0.000	0.000
1.772 NNW	0.000	0.140	0.840	0.746	0.373	0.000	0.000	0.000	0.000
2.099 SUBTOTAL	0.000	1.726	16.274	11.241	5.224	2.799	0.093	0.000	0.000
37.360									

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2150
TOTAL HOURS OF STABILITY CLASS E	802
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E	801
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2144
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2006/05/26

MEAN WIND SPEED = 4.02

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR
 STABILITY CLASS F (1.5< DELTA T<= 4.0 C/100 M)

Sequoyah Nuclear Plant

JAN 1, 2006 - MAR 31, 2006

WIND DIRECTION TOTAL	CALM	WIND SPEED (MPH)							
		0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	19.5-24.4	>=24.5
N	0.000	0.093	0.606	0.047	0.000	0.000	0.000	0.000	0.000
0.746									
NNE	0.000	0.373	2.006	0.140	0.000	0.000	0.000	0.000	0.000
2.519									
NE	0.000	0.280	0.979	0.047	0.000	0.000	0.000	0.000	0.000
1.306									
ENE	0.000	0.047	0.233	0.000	0.000	0.000	0.000	0.000	0.000
0.280									
E	0.000	0.047	0.047	0.000	0.000	0.000	0.000	0.000	0.000
0.093									
ESE	0.000	0.093	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.093									
SE	0.000	0.047	0.047	0.000	0.000	0.000	0.000	0.000	0.000
0.093									
SSE	0.000	0.187	0.187	0.000	0.000	0.000	0.000	0.000	0.000
0.373									
S	0.000	0.187	0.560	0.140	0.000	0.000	0.000	0.000	0.000
0.886									
SSW	0.000	0.047	1.433	0.326	0.047	0.047	0.000	0.000	0.000
1.959									
SW	0.000	0.093	0.979	0.326	0.047	0.000	0.000	0.000	0.000
1.446									
WSW	0.000	0.000	0.420	0.047	0.047	0.000	0.000	0.000	0.000
0.513									
W	0.000	0.047	0.093	0.000	0.000	0.000	0.000	0.000	0.000
0.140									
WNW	0.000	0.047	0.140	0.000	0.047	0.000	0.000	0.000	0.000
0.233									
NW	0.000	0.000	0.047	0.000	0.000	0.047	0.000	0.000	0.000
0.093									
NNW	0.000	0.000	0.093	0.047	0.047	0.000	0.000	0.000	0.000
0.147									
SUBTOTAL	0.000	1.586	7.929	1.119	0.233	0.093	0.000	0.000	0.000
10.961									

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2150
TOTAL HOURS OF STABILITY CLASS F	235
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F	235
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2144
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2006/05/26

MEAN WIND SPEED = 2.44

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS G (DELTA T > 4.0 C/100 M)

Sequoyah Nuclear Plant

JAN 1, 2006 - MAR 31, 2006

WIND DIRECTION TOTAL	WIND SPEED (MPH)								
	CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	>=24.5
N	0.000	0.093	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.093									
NNE	0.000	0.373	0.979	0.187	0.000	0.000	0.000	0.000	0.000
1.539									
NE	0.000	0.280	0.653	0.000	0.000	0.000	0.000	0.000	0.000
0.933									
ENE	0.000	0.140	0.140	0.000	0.000	0.000	0.000	0.000	0.000
0.280									
E	0.000	0.187	0.047	0.000	0.000	0.000	0.000	0.000	0.000
0.233									
ESE	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.047									
SE	0.000	0.140	0.047	0.000	0.000	0.000	0.000	0.000	0.000
0.187									
SSE	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000
0.047									
S	0.000	0.140	0.373	0.000	0.000	0.000	0.000	0.000	0.000
0.513									
SSW	0.000	0.047	0.326	0.000	0.000	0.000	0.000	0.000	0.000
0.373									
SW	0.000	0.140	0.466	0.093	0.000	0.000	0.000	0.000	0.000
0.700									
WSW	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000
0.047									
W	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
NNW	0.000	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.047									
SUBTOTAL	0.000	1.632	3.125	0.240	0.000	0.000	0.000	0.000	0.000
5.037									

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2150
TOTAL HOURS OF STABILITY CLASS G	108
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	108
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2144
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2006/05/26

MEAN WIND SPEED = 1.95

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS A (DELTA T<=-1.9 C/100 M)

Sequoyah Nuclear Plant

APR 1, 2006 - JUN 30, 2006

WIND DIRECTION TOTAL	CALM	WIND SPEED (MPH)							
		0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	>=24.5
N	0.000	0.000	0.000	0.293	0.049	0.293	0.000	0.000	0.000
0.634									
NNE	0.000	0.000	0.000	0.878	0.433	0.195	0.000	0.000	0.000
1.560									
NE	0.000	0.000	0.000	0.780	0.390	0.244	0.000	0.000	0.000
1.414									
ENE	0.000	0.000	0.000	0.293	0.049	0.000	0.000	0.000	0.000
0.341									
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
ESE	0.000	0.000	0.049	0.000	0.000	0.000	0.000	0.000	0.000
0.049									
SE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
S	0.000	0.000	0.000	0.098	0.146	0.098	0.000	0.000	0.000
0.341									
SSW	0.000	0.000	0.000	1.024	1.414	0.195	0.000	0.000	0.000
2.633									
SW	0.000	0.000	0.000	0.926	0.926	0.244	0.000	0.000	0.000
2.097									
WSW	0.000	0.000	0.000	0.195	0.293	0.244	0.000	0.000	0.000
0.731									
W	0.000	0.000	0.000	0.000	0.244	0.390	0.000	0.000	0.000
0.634									
WNW	0.000	0.000	0.000	0.000	0.244	0.146	0.049	0.000	0.000
0.439									
NW	0.000	0.000	0.000	0.000	0.146	0.293	0.000	0.000	0.000
0.439									
NNW	0.000	0.000	0.000	0.049	0.098	0.390	0.000	0.000	0.000
0.536									
SUBTOTAL	0.000	0.000	0.049	4.534	4.436	2.730	0.049	0.000	0.000
11.949									

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2092
TOTAL HOURS OF STABILITY CLASS A	244
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A	243
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2051
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2006/08/07

MEAN WIND SPEED = 6.22

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR
 STABILITY CLASS B (-1.9< DELTA T<=-1.7 C/100 M)

Sequoyah Nuclear Plant

APR 1, 2006 - JUN 30, 2006

WIND DIRECTION TOTAL	CALM	WIND SPEED (MPH)							
		0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	13.5-24.4	>=24.5
N	0.000	0.000	0.000	0.146	0.098	0.000	0.000	0.000	0.000
0.244									
NNE	0.000	0.000	0.000	0.439	0.244	0.049	0.000	0.000	0.000
0.731									
NE	0.000	0.000	0.098	0.293	0.049	0.000	0.000	0.000	0.000
0.439									
ENE	0.000	0.000	0.000	0.195	0.000	0.000	0.000	0.000	0.000
0.195									
E	0.000	0.000	0.000	0.049	0.000	0.000	0.000	0.000	0.000
0.049									
ESE	0.000	0.000	0.000	0.049	0.000	0.000	0.000	0.000	0.000
0.049									
SE	0.000	0.000	0.049	0.000	0.000	0.000	0.000	0.000	0.000
0.049									
SSE	0.000	0.000	0.000	0.049	0.049	0.000	0.000	0.000	0.000
0.098									
S	0.000	0.000	0.049	0.000	0.098	0.000	0.000	0.000	0.000
0.146									
SSW	0.000	0.000	0.000	0.878	0.293	0.049	0.000	0.000	0.000
1.219									
SW	0.000	0.000	0.000	0.634	0.195	0.049	0.000	0.000	0.000
0.878									
WSW	0.000	0.000	0.000	0.049	0.000	0.049	0.000	0.000	0.000
0.098									
W	0.000	0.000	0.000	0.000	0.098	0.000	0.000	0.000	0.000
0.098									
WNW	0.000	0.000	0.000	0.000	0.000	0.098	0.000	0.000	0.000
0.098									
NW	0.000	0.000	0.049	0.098	0.049	0.000	0.000	0.000	0.000
0.195									
NNW	0.000	0.000	0.049	0.049	0.000	0.098	0.000	0.000	0.000
0.195									
SUBTOTAL	0.000	0.000	0.293	2.925	1.170	0.390	0.000	0.000	0.000
4.778									

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2092
 TOTAL HOURS OF STABILITY CLASS B 100
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B 98
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2051
 TOTAL HOURS CALM 0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2006/08/07

MEAN WIND SPEED = 5.04

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR
 STABILITY CLASS C (-1.7< DELTA T<=-1.5 C/100 M)

Sequoyah Nuclear Plant

APR 1, 2006 - JUN 30, 2006

WIND DIRECTION TOTAL	CALM	0.6-1.4	1.5-3.4	WIND SPEED (MPH)					
				3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	>=24.5
N	0.000	0.000	0.049	0.098	0.098	0.049	0.000	0.000	0.000
0.293									
NNE	0.000	0.000	0.146	0.390	0.195	0.146	0.000	0.000	0.000
0.878									
NE	0.000	0.000	0.390	0.293	0.049	0.049	0.000	0.000	0.000
0.780									
ENE	0.000	0.000	0.146	0.098	0.000	0.000	0.000	0.000	0.000
0.244									
E	0.000	0.000	0.098	0.049	0.000	0.000	0.000	0.000	0.000
0.146									
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
SE	0.000	0.000	0.000	0.049	0.000	0.000	0.000	0.000	0.000
0.049									
SSE	0.000	0.000	0.049	0.000	0.049	0.000	0.000	0.000	0.000
0.098									
S	0.000	0.000	0.049	0.293	0.000	0.049	0.000	0.000	0.000
0.390									
SSW	0.000	0.000	0.244	0.926	0.098	0.049	0.000	0.000	0.000
1.316									
SW	0.000	0.000	0.146	0.439	0.244	0.000	0.000	0.000	0.000
0.829									
WSW	0.000	0.000	0.146	0.049	0.098	0.049	0.000	0.000	0.000
0.341									
W	0.000	0.000	0.000	0.049	0.049	0.049	0.049	0.000	0.000
0.195									
WNW	0.000	0.000	0.000	0.000	0.049	0.000	0.000	0.000	0.000
0.049									
NW	0.000	0.000	0.000	0.049	0.049	0.146	0.000	0.000	0.000
0.244									
NNW	0.000	0.000	0.000	0.146	0.098	0.049	0.000	0.000	0.000
0.293									
SUBTOTAL	0.000	0.000	1.463	2.925	1.073	0.614	0.049	0.000	0.000
6.143									

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2092
 TOTAL HOURS OF STABILITY CLASS C 127
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C 126
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2051
 TOTAL HOURS CALM 0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2006/08/07

MEAN WIND SPEED = 4.85

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR
 STABILITY CLASS D (-1.5 < DELTA T <= -0.5 C/100 M)

Sequoyah Nuclear Plant

APR 1, 2006 - JUN 30, 2006

WIND DIRECTION TOTAL	WIND SPEED (MPH)								
	CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	>=24.5
N	0.000	0.000	0.926	0.829	0.341	0.195	0.000	0.000	0.000
2.292									
NNE	0.000	0.000	1.316	1.316	0.878	0.585	0.000	0.000	0.000
4.096									
NE	0.000	0.049	0.878	0.341	0.195	0.000	0.000	0.000	0.000
1.463									
ENE	0.000	0.000	0.390	0.000	0.000	0.000	0.000	0.000	0.000
0.390									
E	0.000	0.000	0.195	0.000	0.000	0.000	0.000	0.000	0.000
0.195									
ESE	0.000	0.000	0.146	0.049	0.000	0.000	0.000	0.000	0.000
0.195									
SE	0.000	0.049	0.244	0.195	0.000	0.000	0.000	0.000	0.000
0.498									
SSE	0.000	0.000	0.585	0.488	0.195	0.049	0.000	0.000	0.000
1.316									
S	0.000	0.000	1.511	1.511	0.536	0.390	0.000	0.000	0.000
3.949									
SSW	0.000	0.049	1.853	2.243	0.439	0.000	0.000	0.000	0.000
4.583									
SW	0.000	0.000	1.804	0.829	0.585	0.049	0.000	0.000	0.000
3.267									
WSW	0.000	0.000	0.975	0.488	0.146	0.049	0.000	0.000	0.000
1.658									
W	0.000	0.049	0.244	0.244	0.098	0.244	0.000	0.000	0.000
0.878									
WNW	0.000	0.000	0.098	0.049	0.098	0.049	0.098	0.000	0.000
0.390									
NW	0.000	0.000	0.049	0.293	0.098	0.244	0.000	0.000	0.000
0.683									
NNW	0.000	0.049	0.439	0.439	0.341	0.098	0.000	0.000	0.000
1.365									
SUBTOTAL	0.000	0.244	11.653	9.313	3.949	1.950	0.098	0.000	0.000
27.206									

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2092
 TOTAL HOURS OF STABILITY CLASS D 569
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D 558
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2051
 TOTAL HOURS CALM 0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2006/08/07

MEAN WIND SPEED = 4.21

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS E (-0.5< DELTA T<= 1.5 C/100 M)

Sequoyah Nuclear Plant

APR 1, 2006 - JUN 30, 2006

WIND DIRECTION TOTAL	CALM	WIND SPEED (MPH)							
		0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	>=24.5
N	0.000	0.293	2.779	0.975	0.049	0.049	0.000	0.000	0.000
4.144 NNE	0.000	0.341	3.315	0.390	0.146	0.000	0.000	0.000	0.000
4.193 NE	0.000	0.293	0.975	0.195	0.000	0.000	0.000	0.000	0.000
1.463 ENE	0.000	0.098	0.049	0.000	0.000	0.000	0.000	0.000	0.000
0.146 E	0.000	0.098	0.098	0.049	0.000	0.000	0.000	0.000	0.000
0.244 ESE	0.000	0.293	0.049	0.049	0.000	0.000	0.000	0.000	0.000
0.390 SE	0.000	0.000	0.146	0.146	0.000	0.000	0.000	0.000	0.000
0.293 SSE	0.000	0.244	0.488	0.098	0.000	0.000	0.000	0.000	0.000
0.829 S	0.000	0.293	2.048	0.488	0.195	0.000	0.000	0.000	0.000
3.023 SSW	0.000	0.146	3.852	1.073	0.098	0.000	0.000	0.000	0.000
5.164 SW	0.000	0.244	3.364	1.264	0.390	0.000	0.000	0.000	0.000
5.266 WSW	0.000	0.098	1.853	0.731	0.000	0.000	0.000	0.000	0.000
2.642 W	0.000	0.049	0.731	0.341	0.049	0.000	0.000	0.000	0.000
1.170 WNW	0.000	0.195	0.439	0.049	0.000	0.000	0.000	0.000	0.000
0.643 NW	0.000	0.195	0.731	0.146	0.000	0.049	0.000	0.000	0.000
1.121 NNW	0.000	0.390	1.706	0.390	0.049	0.000	0.000	0.000	0.000
2.535 SUBTOTAL	0.000	3.267	22.623	6.347	0.975	0.098	0.000	0.000	0.000
33.350									

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2092
TOTAL HOURS OF STABILITY CLASS E	704
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E	644
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2051
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2006/09/07

MEAN WIND SPEED = 2.75

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR
 STABILITY CLASS F (1.5< DELTA T<= 4.0 C/100 M)

Sequoyah Nuclear Plant

APR 1, 2006 - JUN 30, 2006

WIND DIRECTION TOTAL	WIND SPEED (MPH)								
	CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	>=24.5
N 2.447	0.009	0.146	2.292	0.000	0.000	0.000	0.000	0.000	0.000
NNE 3.083	0.011	0.341	2.730	0.000	0.000	0.000	0.000	0.000	0.000
NE 1.468	0.005	0.498	0.975	0.000	0.000	0.000	0.000	0.000	0.000
ENE 0.049	0.000	0.049	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E 0.147	0.001	0.049	0.098	0.000	0.000	0.000	0.000	0.000	0.000
ESE 0.147	0.001	0.146	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE 0.294	0.001	0.146	0.146	0.000	0.000	0.000	0.000	0.000	0.000
SSE 0.245	0.001	0.049	0.195	0.000	0.000	0.000	0.000	0.000	0.000
S 0.538	0.002	0.098	0.390	0.049	0.000	0.000	0.000	0.000	0.000
SSW 2.300	0.008	0.293	1.999	0.000	0.000	0.000	0.000	0.000	0.000
SW 1.271	0.003	0.049	0.878	0.244	0.098	0.000	0.000	0.000	0.000
WSW 0.636	0.002	0.195	0.479	0.000	0.000	0.000	0.000	0.000	0.000
W 0.098	0.000	0.000	0.049	0.000	0.049	0.000	0.000	0.000	0.000
WNW 0.294	0.001	0.098	0.195	0.000	0.000	0.000	0.000	0.000	0.000
NW 0.294	0.001	0.146	0.146	0.000	0.000	0.000	0.000	0.000	0.000
NNW 0.449	0.002	0.000	0.439	0.049	0.000	0.000	0.000	0.000	0.000
SUBTOTAL 13.794	0.049	2.292	10.970	0.341	0.146	0.000	0.000	0.000	0.000

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2092
TOTAL HOURS OF STABILITY CLASS F	249
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F	243
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2051
TOTAL HOURS CALM	1

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2006/08/07

MEAN WIND SPEED = 2.10

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS G (DELTA T > 4.0 C/100 M)

Sequoyah Nuclear Plant

APR 1, 2006 - JUN 30, 2006

WIND DIRECTION TOTAL	WIND SPEED (MPH)								
	CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	>=24.5
N	0.000	0.049	0.195	0.000	0.000	0.000	0.000	0.000	0.000
0.244									
NNE	0.000	0.000	0.439	0.000	0.000	0.000	0.000	0.000	0.000
0.439									
NE	0.000	0.146	0.146	0.000	0.000	0.000	0.000	0.000	0.000
0.293									
ENE	0.000	0.049	0.098	0.000	0.000	0.000	0.000	0.000	0.000
0.146									
E	0.000	0.049	0.049	0.000	0.000	0.000	0.000	0.000	0.000
0.098									
ESE	0.000	0.049	0.049	0.000	0.000	0.000	0.000	0.000	0.000
0.098									
SE	0.000	0.098	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.098									
SSE	0.000	0.293	0.146	0.000	0.000	0.000	0.000	0.000	0.000
0.439									
S	0.000	0.098	0.244	0.000	0.000	0.000	0.000	0.000	0.000
0.341									
SSW	0.000	0.049	0.293	0.000	0.000	0.000	0.000	0.000	0.000
0.341									
SW	0.000	0.000	0.146	0.000	0.000	0.000	0.000	0.000	0.000
0.146									
WSW	0.000	0.049	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.049									
W	0.000	0.000	0.049	0.000	0.000	0.000	0.000	0.000	0.000
0.049									
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
NW	0.000	0.000	0.049	0.000	0.000	0.000	0.000	0.000	0.000
0.049									
NNW	0.000	0.000	0.049	0.000	0.000	0.000	0.000	0.000	0.000
0.049									
SUBTOTAL	0.000	0.926	1.950	0.000	0.000	0.000	0.000	0.000	0.000
2.877									

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2092
TOTAL HOURS OF STABILITY CLASS G	59
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	59
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2051
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2006/08/07

MEAN WIND SPEED - 1.67

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS A (DELTA T<=-1.9 C/100 M)

Sequoyah Nuclear Plant

JUL 1, 2006 - SEP 30, 2006

WIND DIRECTION TOTAL	CALM	0.6-1.4	1.5-3.4	WIND SPEED(MPH)					
				3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	19.5-24.4	>=24.5
N	0.000	0.000	0.000	0.276	0.092	0.000	0.000	0.000	0.000
0.368 NNE	0.000	0.000	0.000	0.414	0.506	0.133	0.000	0.000	0.000
1.058 NE	0.000	0.000	0.000	0.552	0.230	0.092	0.000	0.000	0.000
0.874 ENE	0.000	0.000	0.046	0.092	0.000	0.000	0.000	0.000	0.000
0.138 E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000 ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000 SE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000 SSE	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000
0.046 S	0.000	0.000	0.000	0.046	0.046	0.000	0.000	0.000	0.000
0.092 SSW	0.000	0.000	0.046	1.657	0.414	0.046	0.000	0.000	0.000
2.163 SW	0.000	0.000	0.092	1.150	0.230	0.000	0.000	0.000	0.000
1.473 WSW	0.000	0.000	0.000	0.364	0.138	0.000	0.000	0.000	0.000
0.506 W	0.000	0.000	0.000	0.000	0.138	0.000	0.000	0.000	0.000
0.138 WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000 NW	0.000	0.000	0.000	0.046	0.138	0.046	0.000	0.000	0.000
0.230 NNW	0.000	0.000	0.046	0.138	0.046	0.000	0.000	0.000	0.000
0.230 SUBTOTAL	0.000	0.000	0.230	4.786	1.979	0.322	0.000	0.000	0.000
7.317									

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2145
TOTAL HOURS OF STABILITY CLASS A	159
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A	159
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2173
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2006/11/14
 MEAN WIND SPEED = 5.17

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS B (-1.9< DELTA T<=-1.7 C/100 M)

Sequoyah Nuclear Plant

JUL 1, 2006 - SEP 30, 2006

WIND DIRECTION TOTAL	CALM	WIND SPEED (MPH)							
		0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	19.5-24.4	>=24.5
N	0.000	0.000	0.046	0.046	0.046	0.000	0.000	0.000	0.000
0.138									
NNE	0.000	0.000	0.138	0.823	0.184	0.046	0.000	0.000	0.000
1.197									
NE	0.000	0.000	0.230	0.460	0.046	0.000	0.000	0.000	0.000
0.736									
ENE	0.000	0.000	0.046	0.046	0.000	0.000	0.000	0.000	0.000
0.092									
E	0.000	0.000	0.138	0.000	0.000	0.000	0.000	0.000	0.000
0.138									
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
SE	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000
0.046									
SSE	0.000	0.000	0.000	0.046	0.046	0.000	0.000	0.000	0.000
0.092									
S	0.000	0.000	0.000	0.414	0.092	0.000	0.000	0.000	0.000
0.506									
SSW	0.000	0.000	0.046	0.598	0.092	0.000	0.000	0.000	0.000
0.736									
SW	0.000	0.000	0.322	0.552	0.032	0.000	0.000	0.000	0.000
0.966									
WSW	0.000	0.000	0.184	0.092	0.000	0.000	0.000	0.000	0.000
0.276									
W	0.000	0.000	0.092	0.092	0.000	0.000	0.000	0.000	0.000
0.184									
WNW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
NW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
NNW	0.000	0.000	0.046	0.092	0.046	0.000	0.000	0.000	0.000
0.184									
SUBTOTAL	0.000	0.000	1.289	3.313	0.644	0.046	0.000	0.000	0.000
5.292									

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2145
TOTAL HOURS OF STABILITY CLASS B	115
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B	115
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2173
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2006/11/14

MEAN WIND SPEED = 4.34

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR
 STABILITY CLASS C (-1.7< DELTA T<=-1.5 C/100 M)

Sequoyah Nuclear Plant

JUL 1, 2006 - SEP 30, 2006

WIND DIRECTION TOTAL	CALM	WIND SPEED (MPH)							
		0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	>=24.5
N	0.000	0.000	0.046	0.230	0.046	0.000	0.000	0.000	0.000
0.322									
NNE	0.000	0.000	0.230	0.690	0.322	0.046	0.000	0.000	0.000
1.289									
NE	0.000	0.000	0.460	0.644	0.092	0.000	0.000	0.000	0.000
1.197									
ENE	0.000	0.000	0.000	0.138	0.000	0.000	0.000	0.000	0.000
0.138									
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
ESE	0.000	0.000	0.046	0.138	0.000	0.000	0.000	0.000	0.000
0.184									
SE	0.000	0.000	0.092	0.092	0.000	0.000	0.000	0.000	0.000
0.184									
SSE	0.000	0.000	0.046	0.092	0.000	0.000	0.000	0.000	0.000
0.138									
S	0.000	0.000	0.184	0.690	0.046	0.000	0.000	0.000	0.000
0.920									
SSW	0.000	0.000	0.184	0.732	0.000	0.000	0.000	0.000	0.000
0.966									
SW	0.000	0.000	0.644	0.230	0.000	0.000	0.000	0.000	0.000
0.874									
WSW	0.000	0.000	0.230	0.000	0.000	0.000	0.000	0.000	0.000
0.230									
W	0.000	0.000	0.046	0.000	0.046	0.000	0.000	0.000	0.000
0.092									
WNW	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000
0.046									
NW	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000
0.046									
NNW	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000
0.046									
SUBTOTAL	0.000	0.000	2.209	3.728	0.594	0.134	0.000	0.000	0.000
6.673									

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2195
TOTAL HOURS OF STABILITY CLASS C	146
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C	145
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2173
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2006/11/14
 MEAN WIND SPEED = 4.08

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR
 STABILITY CLASS D (-1.5< DELTA T<=-0.5 C/100 M)

Sequoyah Nuclear Plant

JUL 1, 2006 - SEP 30, 2006

WIND DIRECTION TOTAL	WIND SPEED (MPH)								
	CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-13.4	18.5-24.4	>=24.5
N	0.000	0.092	1.473	1.104	0.368	0.046	0.000	0.000	0.000
3.083									
NNE	0.000	0.000	1.897	2.393	1.197	0.133	0.000	0.000	0.000
5.614									
NE	0.000	0.000	1.197	0.920	0.184	0.046	0.000	0.000	0.000
2.347									
ENE	0.000	0.046	0.920	0.138	0.000	0.000	0.000	0.000	0.000
1.104									
E	0.000	0.046	0.414	0.184	0.000	0.000	0.000	0.000	0.000
0.644									
ESE	0.000	0.000	0.230	0.092	0.000	0.000	0.000	0.000	0.000
0.322									
SE	0.000	0.000	0.782	0.322	0.046	0.000	0.000	0.000	0.000
1.150									
SSE	0.000	0.000	0.966	0.782	0.092	0.000	0.000	0.000	0.000
1.841									
S	0.000	0.092	2.945	2.669	0.644	0.046	0.000	0.000	0.000
6.397									
SSW	0.000	0.000	2.499	2.715	0.364	0.046	0.000	0.000	0.000
6.029									
SW	0.000	0.092	1.243	0.644	0.134	0.000	0.000	0.000	0.000
2.117									
WSW	0.000	0.092	0.552	0.144	0.134	0.046	0.000	0.000	0.000
1.012									
W	0.000	0.000	0.414	0.092	0.046	0.046	0.000	0.000	0.000
0.594									
WNW	0.000	0.000	0.046	0.046	0.046	0.000	0.000	0.000	0.000
0.138									
NW	0.000	0.046	0.276	0.046	0.046	0.046	0.000	0.000	0.000
0.460									
NNW	0.000	0.000	0.276	0.134	0.230	0.046	0.000	0.000	0.000
0.690									
SUBTOTAL	0.000	0.506	16.521	12.471	3.543	0.506	0.000	0.000	0.000
33.544									

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2195
TOTAL HOURS OF STABILITY CLASS D	733
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D	729
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2173
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL.

DATE PRINTED:

2006/11/14

MEAN WIND SPEED - 3.63

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR
 STABILITY CLASS E (-0.5< DELTA T<= 1.5 C/100 M)

Sequoyah Nuclear Plant
 JUL 1, 2006 - SEP 30, 2006

WIND DIRECTION TOTAL	CALM	WIND SPEED (MPH)							
		0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	>=24.5
N 6.719	0.000	0.644	4.924	1.058	0.092	0.000	0.000	0.000	0.000
NNE 4.832	0.000	0.690	3.359	0.736	0.046	0.000	0.000	0.000	0.000
NE 0.966	0.000	0.230	0.736	0.000	0.000	0.000	0.000	0.000	0.000
ENE 0.414	0.000	0.092	0.230	0.092	0.000	0.000	0.000	0.000	0.000
E 0.368	0.000	0.276	0.046	0.046	0.000	0.000	0.000	0.000	0.000
ESE 0.368	0.000	0.322	0.046	0.000	0.000	0.000	0.000	0.000	0.000
SE 0.644	0.000	0.276	0.368	0.000	0.000	0.000	0.000	0.000	0.000
SSE 1.243	0.000	0.184	0.828	0.184	0.046	0.000	0.000	0.000	0.000
S 3.497	0.000	0.322	2.209	0.644	0.322	0.000	0.000	0.000	0.000
SSW 4.234	0.000	0.184	3.221	0.828	0.000	0.000	0.000	0.000	0.000
SW 3.037	0.000	0.230	2.393	0.414	0.000	0.000	0.000	0.000	0.000
WSW 1.473	0.000	0.184	1.104	0.184	0.000	0.000	0.000	0.000	0.000
W 1.473	0.000	0.138	1.335	0.000	0.000	0.000	0.000	0.000	0.000
WNW 1.104	0.000	0.230	0.736	0.138	0.000	0.000	0.000	0.000	0.000
NW 1.749	0.000	0.276	1.104	0.230	0.138	0.000	0.000	0.000	0.000
NNW 2.393	0.000	0.368	1.611	0.414	0.000	0.000	0.000	0.000	0.000
SUBTOTAL 34.514	0.000	4.644	24.252	4.970	0.644	0.000	0.000	0.000	0.000

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2185
TOTAL HOURS OF STABILITY CLASS E	757
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E	750
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2173
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2006/11/14
 MEAN WIND SPEED = 2.48

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS F (1.5< DELTA T<= 4.0 C/100 M)

Sequoyah Nuclear Plant

JUL 1, 2006 - SEP 30, 2006

WIND DIRECTION TOTAL	WIND SPEED (MPH)								
	CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-13.4	13.5-24.4	>=24.5
N	0.000	0.552	3.083	0.184	0.000	0.000	0.000	0.000	0.000
3.920									
NNE	0.000	0.828	2.715	0.000	0.000	0.000	0.000	0.000	0.000
3.543									
NE	0.000	0.368	0.230	0.000	0.000	0.000	0.000	0.000	0.000
0.598									
ENE	0.000	0.138	0.000	0.046	0.000	0.000	0.000	0.000	0.000
0.184									
E	0.000	0.092	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.092									
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
SE	0.000	0.092	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.092									
SSE	0.000	0.230	0.046	0.000	0.000	0.000	0.000	0.000	0.000
0.276									
S	0.000	0.046	0.322	0.000	0.000	0.000	0.000	0.000	0.000
0.368									
SSW	0.000	0.092	0.322	0.000	0.000	0.000	0.000	0.000	0.000
0.414									
SW	0.000	0.000	0.230	0.046	0.000	0.000	0.000	0.000	0.000
0.276									
WSW	0.000	0.046	0.184	0.000	0.000	0.000	0.000	0.000	0.000
0.230									
W	0.000	0.092	0.184	0.000	0.000	0.000	0.000	0.000	0.000
0.276									
WNW	0.000	0.046	0.092	0.000	0.000	0.000	0.000	0.000	0.000
0.138									
NW	0.000	0.046	0.414	0.092	0.000	0.000	0.000	0.000	0.000
0.552									
NNW	0.000	0.092	0.966	0.046	0.000	0.000	0.000	0.000	0.000
1.104									
SUBTOTAL	0.000	2.761	8.790	0.414	0.000	0.000	0.000	0.000	0.000
11.965									

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2145
TOTAL HOURS OF STABILITY CLASS F	260
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F	260
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2173
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2006/11/14

MEAN WIND SPEED = 1.97

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR
STABILITY CLASS G (DELTA T > 4.0 C/100 M)

Sequoyah Nuclear Plant

JUL 1, 2006 - SEP 30, 2006

WIND DIRECTION TOTAL	WIND SPEED (MPH)								
	CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	>=24.5
N 0.092	0.000	0.000	0.032	0.000	0.000	0.000	0.000	0.000	0.000
NNE 0.276	0.000	0.000	0.276	0.000	0.000	0.000	0.000	0.000	0.000
NE 0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ENE 0.046	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E 0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ESE 0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE 0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SSE 0.092	0.000	0.092	0.000	0.000	0.000	0.000	0.000	0.000	0.000
S 0.184	0.000	0.046	0.138	0.000	0.000	0.000	0.000	0.000	0.000
SSW 0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SW 0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WSW 0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W 0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
WNW 0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW 0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW 0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SUBTOTAL 0.690	0.000	0.184	0.506	0.000	0.000	0.000	0.000	0.000	0.000

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2185
TOTAL HOURS OF STABILITY CLASS G	15
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	15
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2173
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant
STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS
WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2006/11/14
MEAN WIND SPEED = 1.65

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR
STABILITY CLASS A (DELTA T<=-1.9 C/100 M)

Sequoyah Nuclear Plant

OCT 1, 2006 - DEC 31, 2006

WIND DIRECTION TOTAL	WIND SPEED (MPH)								
	CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	>=24.5
N	0.000	0.000	0.000	0.046	0.137	0.193	0.000	0.000	0.000
0.365									
NNE	0.000	0.000	0.000	0.046	0.365	0.640	0.000	0.000	0.000
1.051									
NE	0.000	0.000	0.000	0.137	0.193	0.091	0.000	0.000	0.000
0.411									
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
SE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
SSW	0.000	0.000	0.000	0.224	0.365	0.000	0.000	0.000	0.000
0.594									
SW	0.000	0.000	0.193	0.224	0.046	0.046	0.000	0.000	0.000
0.503									
WSW	0.000	0.000	0.000	0.046	0.000	0.091	0.000	0.000	0.000
0.137									
W	0.000	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000
0.046									
WNW	0.000	0.000	0.000	0.193	0.137	0.091	0.000	0.000	0.000
0.411									
NW	0.000	0.000	0.000	0.046	0.193	0.193	0.000	0.000	0.000
0.411									
NNW	0.000	0.000	0.000	0.046	0.091	0.000	0.000	0.000	0.000
0.137									
SUBTOTAL	0.000	0.000	0.193	1.005	1.504	1.370	0.000	0.000	0.000
4.066									

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2143
TOTAL HOURS OF STABILITY CLASS A	89
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS A	89
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2193
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant
STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS
WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

2007/01/25

MEAN WIND SPEED = 6.50

DATE PRINTED:

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR
 STABILITY CLASS B (-1.9< DELTA T<=-1.7 C/100 M)

Sequoyah Nuclear Plant

OCT 1, 2006 - DEC 31, 2006

WIND DIRECTION TOTAL	CALM	WIND SPEED(MPH)							
		0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	>=24.5
N	0.000	0.000	0.000	0.000	0.046	0.046	0.000	0.000	0.000
0.091									
NNE	0.000	0.000	0.046	0.411	0.365	0.183	0.000	0.000	0.000
1.005									
NE	0.000	0.000	0.091	0.137	0.137	0.137	0.000	0.000	0.000
0.503									
ENE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
ESE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
SE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
S	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
SSW	0.000	0.000	0.046	0.137	0.046	0.000	0.000	0.000	0.000
0.228									
SW	0.000	0.000	0.137	0.091	0.228	0.000	0.000	0.000	0.000
0.457									
WSW	0.000	0.000	0.046	0.046	0.000	0.000	0.000	0.000	0.000
0.091									
W	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000
0.046									
WNW	0.000	0.000	0.000	0.000	0.046	0.091	0.000	0.000	0.000
0.137									
NW	0.000	0.000	0.000	0.000	0.228	0.000	0.000	0.000	0.000
0.228									
NNW	0.000	0.000	0.000	0.000	0.137	0.000	0.000	0.000	0.000
0.137									
SUBTOTAL	0.000	0.000	0.411	0.822	1.233	0.457	0.000	0.000	0.000
2.924									

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2189
TOTAL HOURS OF STABILITY CLASS B	64
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS B	64
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2189
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2007/01/25

MEAN WIND SPEED - 5.85

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR
 STABILITY CLASS C (-1.7< DELTA T<--1.5 C/100 M)

Sequoyah Nuclear Plant

OCT 1, 2006 - DEC 31, 2006

WIND DIRECTION TOTAL	CALM	WIND SPEED(MPH)							
		0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-13.4	13.5-24.4	>=24.5
N	0.000	0.000	0.000	0.183	0.000	0.091	0.000	0.000	0.000
0.274									
NNE	0.000	0.000	0.274	0.137	0.365	0.320	0.000	0.000	0.000
1.096									
NE	0.000	0.000	0.274	0.274	0.320	0.091	0.000	0.000	0.000
0.959									
ENE	0.000	0.000	0.091	0.000	0.000	0.000	0.000	0.000	0.000
0.091									
E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
ESE	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000
0.046									
SE	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000
0.046									
SSE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000									
S	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000
0.046									
SSW	0.000	0.000	0.137	0.457	0.046	0.000	0.000	0.000	0.000
0.640									
SW	0.000	0.000	0.143	0.594	0.091	0.046	0.000	0.000	0.000
0.914									
WSW	0.000	0.000	0.137	0.091	0.000	0.000	0.046	0.000	0.000
0.274									
W	0.000	0.000	0.046	0.046	0.000	0.000	0.000	0.000	0.000
0.091									
WNW	0.000	0.000	0.000	0.000	0.046	0.000	0.000	0.000	0.000
0.046									
NW	0.000	0.000	0.046	0.000	0.000	0.143	0.000	0.000	0.000
0.224									
NNW	0.000	0.000	0.046	0.137	0.046	0.046	0.000	0.000	0.000
0.274									
SUBTOTAL	0.000	0.000	1.279	2.010	0.914	0.777	0.046	0.000	0.000
5.025									

TOTAL HOURS OF VALID STABILITY OBSERVATIONS 2149
 TOTAL HOURS OF STABILITY CLASS C 110
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS C 110
 TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS 2149
 TOTAL HOURS CALM 0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2007/01/25

MEAN WIND SPEED - 5.21

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS D (-1.5< DELTA T<=-0.5 C/100 M)

Sequoyah Nuclear Plant

OCT 1, 2006 - DEC 31, 2006

WIND DIRECTION TOTAL	WIND SPEED (MPH)								
	CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-19.4	19.5-24.4	>=24.5
N	0.000	0.046	0.640	1.051	1.736	0.731	0.000	0.000	0.000
4.203 NNE	0.000	0.137	1.553	2.376	1.919	0.959	0.000	0.000	0.000
6.944 NE	0.000	0.000	1.782	0.914	0.543	0.046	0.000	0.000	0.000
3.289 ENE	0.000	0.137	0.548	0.137	0.000	0.000	0.000	0.000	0.000
0.822 E	0.000	0.183	0.320	0.046	0.000	0.000	0.000	0.000	0.000
0.548 ESE	0.000	0.046	0.365	0.000	0.000	0.000	0.000	0.000	0.000
0.411 SE	0.000	0.046	0.411	0.046	0.046	0.000	0.000	0.000	0.000
0.548 SSE	0.000	0.046	0.320	0.046	0.000	0.000	0.000	0.000	0.000
0.411 S	0.000	0.091	0.411	0.594	0.274	0.320	0.046	0.000	0.000
1.736 SSW	0.000	0.137	1.279	1.599	0.503	0.046	0.000	0.000	0.000
3.563 SW	0.000	0.091	1.005	0.731	0.137	0.457	0.046	0.000	0.000
2.467 WSW	0.000	0.046	0.365	0.137	0.365	0.046	0.000	0.000	0.000
0.959 W	0.000	0.046	0.137	0.320	0.224	0.000	0.000	0.000	0.000
0.731 WNW	0.000	0.000	0.183	0.183	0.091	0.046	0.000	0.000	0.000
0.503 NW	0.000	0.091	0.224	0.959	0.457	0.224	0.000	0.000	0.000
1.964 NNW	0.000	0.000	0.640	0.731	1.233	0.457	0.000	0.000	0.000
3.061									
SUBTOTAL	0.000	1.142	10.147	9.464	7.534	3.335	0.091	0.000	0.000
12.161									

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2149
TOTAL HOURS OF STABILITY CLASS D	704
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS D	704
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2149
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2007/01/25

MEAN WIND SPEED = 4.54

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS E (-0.5< DELTA T<= 1.5 C/100 M)

Sequoyah Nuclear Plant

OCT 1, 2006 - DEC 31, 2006

WIND DIRECTION TOTAL	CALM	WIND SPEED (MPH)							
		0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	>=24.5
N	0.000	0.457	2.741	1.142	0.320	0.091	0.000	0.000	0.000
4.751 NNE	0.000	0.365	4.340	2.193	0.365	0.091	0.000	0.000	0.000
7.355 NE	0.000	0.411	1.233	0.228	0.046	0.000	0.000	0.000	0.000
1.919 ENE	0.000	0.228	0.183	0.000	0.000	0.000	0.000	0.000	0.000
0.411 E	0.000	0.228	0.137	0.000	0.000	0.000	0.000	0.000	0.000
0.365 ESE	0.000	0.046	0.183	0.000	0.000	0.000	0.000	0.000	0.000
0.228 SE	0.000	0.091	0.046	0.000	0.000	0.000	0.000	0.000	0.000
0.137 SSE	0.000	0.228	0.411	0.046	0.228	0.091	0.000	0.000	0.000
1.005 S	0.000	0.091	1.188	0.320	0.183	0.457	0.046	0.000	0.000
2.284 SSW	0.000	0.274	2.284	0.594	0.091	0.000	0.000	0.000	0.000
3.243 SW	0.000	0.143	1.964	0.777	0.091	0.137	0.091	0.000	0.000
3.243 WSW	0.000	0.143	1.005	0.274	0.046	0.000	0.000	0.000	0.000
1.508 W	0.000	0.143	0.320	0.228	0.091	0.000	0.000	0.000	0.000
0.422 WNW	0.000	0.228	0.274	0.228	0.137	0.046	0.000	0.000	0.000
0.914 NW	0.000	0.143	0.503	0.365	0.091	0.000	0.000	0.000	0.000
1.142 NNW	0.000	0.320	1.325	0.365	0.137	0.000	0.000	0.000	0.000
2.147									
SUBTOTAL	0.000	3.700	14.136	6.761	1.927	0.914	0.137	0.000	0.000
31.476									

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2189
TOTAL HOURS OF STABILITY CLASS E	649
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS E	649
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2189
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2007/01/25

MEAN WIND SPEED - 3.02

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS F (1.5< DELTA T<= 4.0 C/100 M)

Sequoyah Nuclear Plant

OCT 1, 2006 - DEC 31, 2006

WIND DIRECTION TOTAL	CALM	WIND SPEED (MPH)							
		0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-13.4	13.5-24.4	>=24.5
N	0.005	0.137	1.690	0.046	0.000	0.000	0.000	0.000	0.000
1.878 NNE	0.017	0.777	5.208	0.223	0.000	0.000	0.000	0.000	0.000
6.229 NE	0.007	0.548	1.873	0.223	0.000	0.000	0.000	0.000	0.000
2.656 ENE	0.001	0.365	0.137	0.000	0.000	0.000	0.000	0.000	0.000
0.504 E	0.001	0.229	0.046	0.000	0.000	0.000	0.000	0.000	0.000
0.275 ESE	0.001	0.457	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.458 SE	0.000	0.137	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.137 SSE	0.002	0.320	0.274	0.000	0.000	0.000	0.000	0.000	0.000
0.596 S	0.002	0.411	0.320	0.000	0.000	0.000	0.000	0.000	0.000
0.733 SSW	0.002	0.137	0.685	0.046	0.000	0.000	0.000	0.000	0.000
0.870 SW	0.003	0.181	0.731	0.000	0.000	0.000	0.000	0.000	0.000
0.916 WSW	0.001	0.046	0.274	0.000	0.000	0.000	0.000	0.000	0.000
0.321 W	0.001	0.000	0.365	0.046	0.000	0.000	0.000	0.000	0.000
0.412 WNW	0.001	0.091	0.274	0.046	0.000	0.000	0.000	0.000	0.000
0.412 NW	0.001	0.046	0.274	0.091	0.000	0.000	0.000	0.000	0.000
0.412 NNW	0.001	0.046	0.457	0.000	0.000	0.000	0.000	0.000	0.000
0.504									
SUBTOTAL	0.046	3.929	12.608	0.711	0.000	0.000	0.000	0.000	0.000
17.314									

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2149
TOTAL HOURS OF STABILITY CLASS F	379
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS F	379
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2149
TOTAL HOURS CALM	1

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2007/01/25
 MEAN WIND SPEED = 2.01

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

JOINT PERCENTAGE FREQUENCIES OF WIND SPEED BY WIND DIRECTION FOR

STABILITY CLASS G (DELTA T > 4.0 C/100 M)

Sequoyah Nuclear Plant

OCT 1, 2006 - DEC 31, 2006

WIND DIRECTION TOTAL	WIND SPEED (MPH)								
	CALM	0.6-1.4	1.5-3.4	3.5-5.4	5.5-7.4	7.5-12.4	12.5-18.4	18.5-24.4	>=24.5
N 0.046	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000
NNE 1.462	0.000	0.320	1.096	0.046	0.000	0.000	0.000	0.000	0.000
NE 2.376	0.000	0.503	1.827	0.046	0.000	0.000	0.000	0.000	0.000
ENE 0.046	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000
E 0.183	0.000	0.137	0.046	0.000	0.000	0.000	0.000	0.000	0.000
ESE 0.046	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SE 0.457	0.000	0.411	0.046	0.000	0.000	0.000	0.000	0.000	0.000
SSE 0.457	0.000	0.411	0.046	0.000	0.000	0.000	0.000	0.000	0.000
S 0.544	0.000	0.274	0.274	0.000	0.000	0.000	0.000	0.000	0.000
SSW 0.544	0.000	0.183	0.365	0.000	0.000	0.000	0.000	0.000	0.000
SW 0.640	0.000	0.137	0.503	0.000	0.000	0.000	0.000	0.000	0.000
WSW 0.046	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000
W 0.046	0.000	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000
WNW 0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NW 0.046	0.000	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NNW 0.091	0.000	0.046	0.046	0.000	0.000	0.000	0.000	0.000	0.000
SUBTOTAL 7.035	0.000	2.604	4.340	0.091	0.000	0.000	0.000	0.000	0.000

TOTAL HOURS OF VALID STABILITY OBSERVATIONS	2149
TOTAL HOURS OF STABILITY CLASS G	154
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY CLASS G	154
TOTAL HOURS OF VALID WIND DIRECTION-WIND SPEED-STABILITY OBSERVATIONS	2149
TOTAL HOURS CALM	0

METEOROLOGICAL FACILITY: Sequoyah Nuclear Plant
 STABILITY BASED ON DELTA-T BETWEEN 9.25 AND 45.99 METERS
 WIND SPEED AND DIRECTION MEASURED AT 9.73 METER LEVEL

DATE PRINTED:

2007/01/25

MEAN WIND SPEED = 1.82

NOTE: TOTALS AND SUBTOTALS ARE OBTAINED FROM UNROUNDED NUMBERS

Attachment 2.0

Deviations from ODCM Controls/Surveillance Requirements

Date	ODCM Requiremen	Description of Deviation
Jan 31,2006	1/2 1.1 Table 1.1-1 Item 2.b Action 31.	Radiation monitor 0-RM-90-212 was inoperable. The ODCM action 31 requires sampling once /24 hours when the secondary coolant is less than 0.01 $\mu\text{Ci/g}$ Dose Equivalent I-131, however the surveillance procedure required a sampling frequency of once/12 hours. The sample was collected 14 hours and 45 minutes late. PER 96150